



ATOM	1	CB	VAL A	1	11.902	27.157	22.095	1.00	23.86	6
ATOM	2	CG1	VAL A	1	12.302	27.494	20.658	1.00	24.08	6
ATOM	3	CG2	VAL A	1	10.659	27.948	22.511	1.00	26.37	6
ATOM	4	C	VAL A	1	13.030	25.096	22.743	1.00	19.54	6
ATOM	5	O	VAL A	1	13.191	25.013	23.967	1.00	19.86	7
ATOM	6	N	VAL A	1	10.702	25.241	23.415	1.00	20.28	8
ATOM	7	CA	VAL A	1	11.659	25.658	22.335	1.00	20.25	6
ATOM	8	H	ASH A	2	13.867	24.729	21.802	1.00	18.39	7
ATOM	9	CA	ASH A	2	15.168	24.197	22.212	1.00	16.73	6
ATOM	10	CB	ASH A	2	15.836	23.657	20.945	1.00	16.09	6
ATOM	11	CG	ASH A	2	15.219	22.336	20.451	1.00	15.33	6
ATOM	12	CO1	ASH A	2	14.707	21.549	21.252	1.00	12.41	7
ATOM	13	HO2	ASH A	2	15.283	22.082	19.151	1.00	15.71	6
ATOM	14	C	ASH A	2	15.969	25.334	22.767	1.00	15.71	6
ATOM	15	O	ASH A	2	15.903	26.435	22.198	1.00	16.02	8
ATOM	16	H	GLY A	3	16.720	25.198	23.833	1.00	14.56	7
ATOM	17	CA	GLY A	3	17.541	26.305	24.331	1.00	13.21	6
ATOM	18	C	GLY A	3	18.940	26.211	23.671	1.00	12.14	6
ATOM	19	O	GLY A	3	19.498	25.153	23.302	1.00	11.92	8
ATOM	20	H	THR A	4	19.503	27.368	23.499	1.00	11.28	7
ATOM	21	CA	THR A	4	20.829	27.555	22.912	1.00	10.96	6
ATOM	22	CB	THR A	4	20.721	27.878	21.400	1.00	11.09	6
ATOM	23	OG1	THR A	4	19.920	26.828	20.782	1.00	12.31	8
ATOM	24	CG2	THR A	4	22.048	27.933	20.693	1.00	10.85	6
ATOM	25	C	THR A	4	21.584	28.664	23.663	1.00	10.56	6
ATOM	26	O	THR A	4	21.080	29.743	23.866	1.00	9.98	8
ATOM	27	H	LEU A	5	22.809	28.376	24.092	1.00	10.63	7
ATOM	28	CA	LEU A	5	23.700	29.291	24.818	1.00	10.69	6
ATOM	29	CB	LEU A	5	24.515	28.477	25.789	1.00	9.31	6
ATOM	30	CG	LEU A	5	25.429	28.946	26.864	1.00	10.96	6
ATOM	31	CD1	LEU A	5	24.887	30.150	27.608	1.00	9.46	6
ATOM	32	CD2	LEU A	5	25.608	27.802	27.884	1.00	10.55	6
ATOM	33	C	LEU A	5	24.644	29.992	23.840	1.00	10.85	6
ATOM	34	O	LEU A	5	25.047	29.453	22.799	1.00	10.88	8
ATOM	35	H	HEI A	6	25.031	31.217	24.123	1.00	10.94	6
ATOM	36	CA	HEI A	6	25.971	31.930	23.312	1.00	10.94	6
ATOM	37	CB	HEI A	6	25.455	33.143	22.507	1.00	15.17	6
ATOM	38	CG	HEI A	6	26.629	33.643	21.638	1.00	15.17	6
ATOM	39	SD	HEI A	6	26.027	34.480	20.185	1.00	16.94	6
ATOM	40	CE	HEI A	6	27.089	32.485	24.223	1.00	10.67	6
ATOM	41	C	HEI A	6	26.774	33.206	25.170	1.00	10.51	8
ATOM	42	O	HEI A	6	28.325	32.133	23.911	1.00	10.34	7
ATOM	43	H	GLN A	7	29.440	32.727	24.681	1.00	10.20	6
ATOM	44	CA	GLN A	7	30.696	31.910	24.617	1.00	9.41	6
ATOM	45	CG	GLN A	7	31.967	32.632	25.053	1.00	10.26	6
ATOM	46	CG	GLN A	7	33.280	31.914	25.027	1.00	9.15	6
ATOM	47	CD	GLN A	7	34.327	32.470	25.449	1.00	12.35	8
ATOM	48	OE1	GLN A	7	33.359	30.714	24.570	1.00	6.58	7
ATOM	49	HE2	GLN A	7	29.578	34.125	24.015	1.00	10.22	6
ATOM	50	C	GLN A	7	29.856	34.167	22.786	1.00	10.30	8
ATOM	51	O	GLN A	7	29.394	35.236	24.691	1.00	9.97	7
ATOM	52	H	TYR A	8	29.467	36.526	24.022	1.00	9.95	6
ATOM	53	CA	TYR A	8						
ATOM	54	CO	TYR A	8	28.238	37.382	24.476	1.00	10.19	9
ATOM	55	CG	TYR A	8	27.909	38.377	23.351	1.00	10.76	6
ATOM	56	CO1	TYR A	8	27.180	37.983	22.222	1.00	11.00	6
ATOM	57	CE1	TYR A	8	26.891	38.842	21.190	1.00	11.22	6
ATOM	58	CD2	TYR A	8	28.340	39.698	23.424	1.00	10.96	6
ATOM	59	CE2	TYR A	8	28.080	40.620	22.423	1.00	11.25	6
ATOM	60	CZ	TYR A	8	27.358	40.156	21.312	1.00	11.62	6
ATOM	61	OH	TYR A	8	27.114	41.063	20.294	1.00	11.87	8
ATOM	62	C	TYR A	8	30.789	37.289	24.119	1.00	9.70	6
ATOM	63	O	TYR A	8	30.918	38.427	24.563	1.00	9.67	8
ATOM	64	N	PIE A	9	31.890	36.710	23.639	1.00	9.16	7
ATOM	65	CA	PIE A	9	33.191	37.307	23.508	1.00	9.15	6
ATOM	66	CB	PIE A	9	33.005	37.750	24.941	1.00	8.08	6
ATOM	67	CG	PIE A	9	33.968	36.659	25.978	1.00	9.21	6
ATOM	68	CO1	PIE A	9	35.239	36.125	26.240	1.00	10.15	6
ATOM	69	CO2	PIE A	9	32.887	36.171	26.720	1.00	7.79	6
ATOM	70	CE1	PIE A	9	35.440	35.161	27.245	1.00	10.23	6
ATOM	71	CE2	PIE A	9	33.070	35.205	27.669	1.00	7.64	6
ATOM	72	CZ	PIE A	9	34.313	34.698	27.962	1.00	8.17	6
ATOM	73	C	PIE A	9	34.173	36.294	22.963	1.00	8.94	6
ATOM	74	O	PIE A	9	33.903	35.102	22.918	1.00	8.65	8
ATOM	75	N	GLU A	10	35.284	36.856	22.536	1.00	9.09	7
ATOM	76	CA	GLU A	10	36.430	36.089	22.006	1.00	9.38	6
ATOM	77	CB	GLU A	10	36.508	36.043	20.513	1.00	7.45	6
ATOM	78	CG	GLU A	10	36.604	37.345	19.740	1.00	7.55	6
ATOM	79	CD	GLU A	10	37.981	37.500	19.156	1.00	6.81	6
ATOM	80	OE1	GLU A	10	38.145	38.544	18.397	1.00	8.43	8
ATOM	81	OE2	GLU A	10	38.962	36.877	19.438	1.00	5.00	8
ATOM	82	C	GLU A	10	37.636	36.715	22.737	1.00	9.90	6
ATOM	83	O	GLU A	10	37.590	37.807	23.361	1.00	9.92	8
ATOM	84	N	TRP A	11	38.791	36.059	22.729	1.00	10.15	7
ATOM	85	CA	TRP A	11	39.980	36.551	23.407	1.00	10.35	6
ATOM	86	CB	TRP A	11	41.182	35.619	23.186	1.00	9.98	6
ATOM	87	CG	TRP A	11	42.292	35.503	25.565	1.00	11.61	6
ATOM	88	CO2	TRP A	11	43.516	36.063	26.103	1.00	12.44	6
ATOM	89	CE2	TRP A	11	41.412	34.916	26.432	1.00	13.39	6
ATOM	90	CE3	TRP A	11	43.446	36.606	23.915	1.00	11.78	6
ATOM	91	CD1	TRP A	11	44.188	36.673	25.083	1.00	12.99	7
ATOM	92	NE1	TRP A	11	43.831	35.890	27.441	1.00	13.37	6
ATOM	93	CZ2	TRP A	11	41.717	34.763	27.772	1.00	13.91	6
ATOM	94	CZ3	TRP A	11	42.946	35.256	28.280	1.00	14.23	6
ATOM	95	CH2	TRP A	11	40.410	37.937	22.933	1.00	10.57	6
ATOM	96	C	TRP A	11	40.843	38.709	23.797	1.00	10.47	8
ATOM	97	O	TRP A	11	40.322	38.209	21.623	1.00	10.73	7
ATOM	98	H	TYR A	12	40.766	39.508	21.126	1.00	11.11	6
ATOM	99	CA	TYR A	12	41.559	39.432	19.798	1.00	11.11	6
ATOM	100	CB	TYR A	12	42.765	38.515	20.029	1.00	11.60	6
ATOM	101	CG	TYR A	12	42.605	37.158	19.704	1.00	11.95	6
ATOM	102	CO1	TYR A	12	43.666	36.268	19.892	1.00	12.43	6
ATOM	103	CE1	TYR A	12	43.985	38.951	20.540	1.00	11.48	6
ATOM	104	CO2	TYR A	12	45.023	38.076	20.714	1.00	11.85	6
ATOM	105	CE2	TYR A	12	44.870	36.749	20.388	1.00	12.61	6
ATOM	106	CZ	TYR A	12						

ATOM	107	OH	TYR A	12	45.854	35.787	20.560	1.00	13.18	8
ATOM	108	C	TYR A	12	39.687	40.574	20.991	1.00	11.38	6
ATOM	109	O	TYR A	12	39.862	41.436	20.132	1.00	11.53	8
ATOM	110	H	THR A	13	38.630	40.547	21.783	1.00	11.49	7
ATOM	111	CA	THR A	13	37.651	41.656	21.700	1.00	11.50	6
ATOM	112	CB	THR A	13	36.604	41.321	22.761	1.00	13.32	6
ATOM	113	OG1	THR A	13	35.755	40.296	22.169	1.00	14.85	8
ATOM	114	C	THR A	13	35.732	42.466	23.175	1.00	14.00	6
ATOM	115	O	THR A	13	38.489	42.880	22.036	1.00	11.41	6
ATOM	116	H	PRO A	14	38.254	44.015	21.408	1.00	11.13	8
ATOM	117	H	PRO A	14	37.184	44.144	20.397	1.00	11.47	7
ATOM	118	CA	PRO A	14	38.979	45.243	20.569	1.00	11.68	6
ATOM	119	CB	PRO A	14	38.477	46.296	20.569	1.00	11.60	6
ATOM	120	CG	PRO A	14	37.352	45.564	19.896	1.00	11.77	6
ATOM	121	C	PRO A	14	38.786	45.868	22.993	1.00	11.21	6
ATOM	122	O	PRO A	14	37.703	45.785	23.618	1.00	11.15	8
ATOM	123	H	ASH A	15	39.806	46.557	23.445	1.00	10.84	7
ATOM	124	CA	ASH A	15	39.720	47.304	24.693	1.00	11.02	6
ATOM	125	CB	ASH A	15	41.073	47.318	25.411	1.00	11.27	6
ATOM	126	CG	ASH A	15	41.055	48.247	26.614	1.00	11.89	6
ATOM	127	CO1	ASH A	15	40.008	48.358	27.277	1.00	12.57	8
ATOM	128	H2	ASH A	15	42.158	48.898	26.922	1.00	11.38	7
ATOM	129	C	ASH A	15	39.240	48.737	24.377	1.00	11.05	6
ATOM	130	O	ASH A	15	39.932	49.767	24.524	1.00	11.08	8
ATOM	131	H	ASP A	16	38.008	48.835	23.905	1.00	10.98	7
ATOM	132	CA	ASP A	16	37.446	50.118	23.529	1.00	11.17	6
ATOM	133	CB	ASP A	16	36.924	50.059	22.068	1.00	11.99	6
ATOM	134	CG	ASP A	16	35.761	49.101	21.873	1.00	12.89	6
ATOM	135	CO1	ASP A	16	35.313	48.341	22.772	1.00	11.83	8
ATOM	136	C	ASP A	16	35.244	49.114	20.732	1.00	14.31	8
ATOM	137	O	ASP A	16	36.352	50.518	24.498	1.00	11.03	6
ATOM	138	H	GLY A	17	35.768	51.582	24.289	1.00	11.12	8
ATOM	139	CA	GLY A	17	34.972	50.083	26.479	1.00	10.89	7
ATOM	140	CB	GLY A	17	33.545	50.032	25.938	1.00	10.65	6
ATOM	141	CG	GLY A	17	32.629	50.522	26.601	1.00	10.67	8
ATOM	142	O	GLY A	17	33.287	49.436	24.766	1.00	10.50	7
ATOM	143	H	GLN A	18	31.995	49.346	24.151	1.00	10.55	6
ATOM	144	CA	GLN A	18	32.064	49.835	22.691	1.00	15.25	6
ATOM	145	CB	GLN A	18	32.718	51.182	22.436	1.00	21.24	6
ATOM	146	CG	GLN A	18	31.729	52.313	22.693	1.00	25.84	6
ATOM	147	CO1	GLN A	18	30.674	52.415	22.016	1.00	29.22	8
ATOM	148	C	GLN A	18	32.104	53.124	23.668	1.00	27.29	7
ATOM	149	OE1	GLN A	18	31.421	47.936	24.042	1.00	10.04	6
ATOM	150	H2	GLN A	18	30.467	47.808	23.281	1.00	9.96	8
ATOM	151	O	GLN A	18	31.986	46.944	24.702	1.00	9.66	6
ATOM	152	C	HIS A	19	31.440	45.572	24.582	1.00	9.29	6
ATOM	153	H	HIS A	19	32.412	44.535	25.162	1.00	6.70	6
ATOM	154	CA	HIS A	19	32.091	43.173	24.563	1.00	8.79	6
ATOM	155	CB	HIS A	19	31.749	41.987	25.138	1.00	7.93	6
ATOM	156	CG	HIS A	19	32.116	42.955	23.187	1.00	8.36	7
ATOM	157	CO2	HIS A	19	31.825	41.705	22.909	1.00	8.32	6
ATOM	158	HD1	HIS A	19						
ATOM	159	CE1	HIS A	19						
ATOM	160	HE2	HIS A	19						
ATOM	161	C	HIS A	19						
ATOM	162	O	HIS A	19						
ATOM	163	N	TRP A	20						
ATOM	164	CA	TRP A	20						
ATOM	165	CB	TRP A	20						
ATOM	166	CG	TRP A	20						
ATOM	167	CD2	TRP A	20						
ATOM	168	CE2	TRP A	20						
ATOM	169	CE3	TRP A	20						
ATOM	170	CD1	TRP A	20						
ATOM	171	NE1	TRP A	20						
ATOM	172	C22	TRP A	20						
ATOM	173	C23	TRP A	20						
ATOM	174	CH2	TRP A	20						
ATOM	175	C	TRP A	20						
ATOM	176	O	TRP A	20						
ATOM	177	N	LYS A	21						
ATOM	178	CA	LYS A	21						
ATOM	179	CB	LYS A	21						
ATOM	180	CG	LYS A	21						
ATOM	181	CD	LYS A	21						
ATOM	182	CE	LYS A	21						
ATOM	183	N2	LYS A	21						
ATOM	184	C	LYS A	21						
ATOM	185	O	LYS A	21						
ATOM	186	N	ARG A	22						
ATOM	187	CA	ARG A	22						
ATOM	188	CB	ARG A	22						
ATOM	189	CG	ARG A	22						
ATOM	190	CD	ARG A	22						
ATOM	191	NE	ARG A	22						
ATOM	192	C2	ARG A	22						
ATOM	193	HH1	ARG A	22						
ATOM	194	HH2	ARG A	22						
ATOM	195	C	ARG A	22						
ATOM	196	O	ARG A	22						
ATOM	197	N	LEU A	23						
ATOM	198	CA	LEU A	23						
ATOM	199	CB	LEU A	23						
ATOM	200	CG	LEU A	23						
ATOM	201	CD1	LEU A	23						
ATOM	202	CD2	LEU A	23						
ATOM	203	C	LEU A	23						
ATOM	204	O	LEU A	23						
ATOM	205	N	GLN A	24						
ATOM	206	CA	GLN A	24						
ATOM	207	CB	GLN A	24						
ATOM	208	CG	GLN A	24						
ATOM	209	CD	GLN A	24						
ATOM	210	OE1	GLN A	24						
ATOM	211	HE2	GLN A	24						
ATOM	212	C	GLN A	24						

ATOM	213	O	GLN A	24	21.030	45.626	22.296	1.00	14.63	8
ATOM	214	N	ASN A	25	23.034	46.369	21.594	1.00	14.90	7
ATOM	215	CA	ASN A	25	22.642	46.525	20.213	1.00	15.31	6
ATOM	216	CB	ASN A	25	23.645	47.256	19.304	1.00	18.01	6
ATOM	217	CG	ASN A	25	23.711	48.719	19.680	1.00	22.28	6
ATOM	218	COO1	ASN A	25	22.686	49.238	20.127	1.00	24.44	8
ATOM	219	HO2	ASN A	25	24.836	49.432	19.588	1.00	23.11	7
ATOM	220	C	ASN A	25	22.371	45.141	19.588	1.00	15.19	6
ATOM	221	O	ASN A	25	21.542	45.198	18.637	1.00	15.31	8
ATOM	222	N	ASP A	26	22.954	44.059	20.051	1.00	14.67	7
ATOM	223	CA	ASP A	26	22.647	42.765	19.394	1.00	14.48	6
ATOM	224	CB	ASP A	26	24.002	42.002	19.440	1.00	14.63	6
ATOM	225	CG	ASP A	26	24.340	41.059	18.322	1.00	14.74	6
ATOM	226	COO1	ASP A	26	23.651	41.073	17.292	1.00	14.77	8
ATOM	227	COO2	ASP A	26	25.294	40.238	18.363	1.00	14.65	8
ATOM	228	C	ASP A	26	21.497	41.933	19.949	1.00	14.18	6
ATOM	229	O	ASP A	26	21.119	40.869	19.454	1.00	13.76	8
ATOM	230	N	ALA A	27	20.813	42.356	20.986	1.00	14.32	7
ATOM	231	CA	ALA A	27	19.761	41.641	21.661	1.00	14.78	6
ATOM	232	CB	ALA A	27	19.276	42.463	22.849	1.00	12.97	6
ATOM	233	C	ALA A	27	18.627	41.207	20.754	1.00	15.34	6
ATOM	234	O	ALA A	27	18.231	40.028	20.840	1.00	15.76	8
ATOM	235	N	GLU A	28	18.099	42.032	19.858	1.00	15.76	7
ATOM	236	CA	GLU A	28	17.010	41.598	18.984	1.00	16.05	6
ATOM	237	CB	GLU A	28	16.526	42.815	18.170	1.00	23.00	6
ATOM	238	CG	GLU A	28	15.097	42.736	17.596	1.00	31.01	6
ATOM	239	CO	GLU A	28	14.001	42.258	18.547	1.00	36.48	6
ATOM	240	OE1	GLU A	28	13.644	41.013	18.587	1.00	40.16	8
ATOM	241	OE2	GLU A	28	13.427	43.089	19.316	1.00	38.33	8
ATOM	242	C	GLU A	28	17.410	40.467	18.044	1.00	15.55	6
ATOM	243	O	GLU A	28	16.773	39.435	17.835	1.00	15.27	8
ATOM	244	N	HIS A	29	18.577	40.712	17.415	1.00	15.36	7
ATOM	245	CA	HIS A	29	19.158	39.769	16.461	1.00	15.11	6
ATOM	246	CB	HIS A	29	20.492	40.422	16.008	1.00	16.22	6
ATOM	247	CG	HIS A	29	21.296	39.400	15.259	1.00	18.29	6
ATOM	248	CO2	HIS A	29	20.895	38.501	14.294	1.00	18.16	6
ATOM	249	HO1	HIS A	29	22.639	39.155	15.496	1.00	18.52	7
ATOM	250	CE1	HIS A	29	23.055	38.163	14.693	1.00	18.61	6
ATOM	251	HE2	HIS A	29	22.006	37.741	13.984	1.00	18.61	7
ATOM	252	C	HIS A	29	19.282	38.370	17.059	1.00	14.84	6
ATOM	253	O	HIS A	29	18.852	37.340	16.543	1.00	14.68	8
ATOM	254	N	LEU A	30	19.913	38.292	18.233	1.00	14.66	7
ATOM	255	CA	LEU A	30	20.154	37.107	19.020	1.00	14.56	6
ATOM	256	CB	LEU A	30	20.913	37.409	20.319	1.00	13.60	6
ATOM	257	CG	LEU A	30	22.350	37.884	20.194	1.00	15.00	6
ATOM	258	CO1	LEU A	30	23.018	37.967	21.586	1.00	15.90	6
ATOM	259	CO2	LEU A	30	23.229	37.049	19.292	1.00	14.94	6
ATOM	260	C	LEU A	30	18.833	36.434	19.390	1.00	14.68	8
ATOM	261	O	LEU A	30	18.683	35.228	19.248	1.00	14.21	6
ATOM	262	N	SER A	31	17.877	37.240	19.879	1.00	15.37	7
ATOM	263	CA	SER A	31	16.596	36.559	20.204	1.00	16.15	6
ATOM	264	CB	SER A	31	15.603	37.378	21.005	1.00	17.82	6
ATOM	265	OG	SER A	31	15.358	38.528	20.190	1.00	22.98	8
ATOM	266	C	SER A	31	15.995	36.112	18.852	1.00	16.34	6
ATOM	267	O	SER A	31	15.558	34.966	18.878	1.00	16.30	8
ATOM	268	N	ASP A	32	16.021	36.882	17.765	1.00	16.40	7
ATOM	269	CA	ASP A	32	15.477	36.341	16.518	1.00	16.55	6
ATOM	270	CB	ASP A	32	15.485	37.339	15.370	1.00	22.70	6
ATOM	271	CG	ASP A	32	14.756	38.665	15.583	1.00	27.13	6
ATOM	272	COO1	ASP A	32	13.849	38.871	16.443	1.00	29.59	8
ATOM	273	COO2	ASP A	32	15.122	39.661	14.868	1.00	29.28	8
ATOM	274	C	ASP A	32	16.207	35.103	16.032	1.00	16.39	6
ATOM	275	O	ASP A	32	15.416	34.249	15.583	1.00	16.54	8
ATOM	276	N	ILE A	33	17.519	34.862	16.111	1.00	15.83	7
ATOM	277	CA	ILE A	33	18.093	33.612	15.639	1.00	15.16	6
ATOM	278	CB	ILE A	33	19.570	33.804	15.292	1.00	13.80	6
ATOM	279	CG2	ILE A	33	19.681	34.906	14.219	1.00	11.75	6
ATOM	280	CG1	ILE A	33	20.353	34.167	16.549	1.00	13.86	6
ATOM	281	CO1	ILE A	33	21.822	34.372	16.151	1.00	14.13	6
ATOM	282	C	ILE A	33	17.939	32.408	16.568	1.00	15.00	6
ATOM	283	O	ILE A	33	18.342	31.264	16.207	1.00	15.20	8
ATOM	284	N	GLY A	34	17.303	32.527	17.740	1.00	14.35	7
ATOM	285	CA	GLY A	34	17.113	31.300	18.606	1.00	13.52	6
ATOM	286	C	GLY A	34	18.042	31.270	19.790	1.00	12.87	6
ATOM	287	O	GLY A	34	18.034	30.216	20.453	1.00	12.97	8
ATOM	288	N	ILE A	35	18.796	32.320	20.120	1.00	12.23	7
ATOM	289	CA	ILE A	35	19.679	32.268	21.301	1.00	11.16	6
ATOM	290	CB	ILE A	35	20.812	33.277	21.168	1.00	9.65	6
ATOM	291	CG2	ILE A	35	21.595	33.376	22.527	1.00	8.10	6
ATOM	292	CG1	ILE A	35	21.782	33.025	20.002	1.00	9.07	6
ATOM	293	CO1	ILE A	35	22.447	31.654	19.909	1.00	8.99	6
ATOM	294	C	ILE A	35	18.798	32.522	22.516	1.00	10.71	6
ATOM	295	O	ILE A	35	18.050	33.521	22.584	1.00	10.65	8
ATOM	296	N	THR A	36	18.816	31.638	23.519	1.00	10.23	7
ATOM	297	CA	THR A	36	18.010	31.768	24.713	1.00	9.85	6
ATOM	298	CB	THR A	36	17.144	30.482	24.943	1.00	7.65	6
ATOM	299	CG1	THR A	36	18.091	29.405	25.089	1.00	7.88	8
ATOM	300	CG2	THR A	36	16.198	30.293	23.779	1.00	6.33	6
ATOM	301	C	THR A	36	18.844	32.120	25.955	1.00	9.79	6
ATOM	302	O	THR A	36	18.271	32.449	26.995	1.00	9.82	8
ATOM	303	N	ALA A	37	20.160	32.045	25.937	1.00	9.41	7
ATOM	304	CA	ALA A	37	20.970	32.392	27.086	1.00	9.45	6
ATOM	305	CB	ALA A	37	21.169	31.279	28.113	1.00	5.60	6
ATOM	306	C	ALA A	37	22.309	32.897	26.536	1.00	9.43	6
ATOM	307	O	ALA A	37	22.815	32.383	25.562	1.00	9.36	8
ATOM	308	N	VAL A	38	22.871	33.921	27.171	1.00	9.63	7
ATOM	309	CA	VAL A	38	24.164	34.496	26.851	1.00	9.68	6
ATOM	310	CB	VAL A	38	24.047	35.995	26.455	1.00	12.81	6
ATOM	311	CG1	VAL A	38	25.397	36.673	26.290	1.00	14.06	6
ATOM	312	CG2	VAL A	38	23.287	36.191	25.123	1.00	12.91	6
ATOM	313	C	VAL A	38	25.124	34.326	28.042	1.00	9.49	6
ATOM	314	O	VAL A	38	26.371	33.915	27.799	1.00	9.06	8
ATOM	315	N	TRP A	39	27.447	33.025	28.774	1.00	8.66	6
ATOM	316	CA	TRP A	39	28.180	32.492	28.797	1.00	7.03	6
ATOM	317	CB	TRP A	39	29.612	32.554	29.282	1.00	6.23	6
ATOM	318	CG	TRP A	39						

ATOM	319	C02 TRP A	39	30.691	31.682	28.807	1.00	6.00	1.00	5.00	5.00	6
ATOM	320	CE2 TRP A	39	31.875	32.074	29.473	1.00	5.58	1.00	5.00	5.00	6
ATOM	321	CE3 TRP A	39	30.708	30.585	27.908	1.00	5.00	1.00	5.00	5.00	7
ATOM	322	CE1 TRP A	39	30.201	33.372	30.190	1.00	5.74	1.00	5.87	5.87	6
ATOM	323	HE1 TRP A	39	31.568	33.153	30.268	1.00	5.57	1.00	5.70	5.70	8
ATOM	324	C22 TRP A	39	33.099	31.441	29.211	1.00	5.00	1.00	6.09	6.09	7
ATOM	325	CE3 TRP A	39	33.099	29.964	27.701	1.00	5.00	1.00	6.70	6.70	6
ATOM	326	CH2 TRP A	39	33.115	30.400	28.307	1.00	5.00	1.00	7.41	7.41	6
ATOM	327	C TRP A	39	28.317	35.078	28.452	1.00	8.53	1.00	7.54	7.54	8
ATOM	328	O TRP A	39	28.856	35.399	27.384	1.00	8.32	1.00	7.77	7.77	7
ATOM	329	H ILE A	40	28.431	35.945	29.459	1.00	8.37	1.00	8.34	8.34	6
ATOM	330	CA ILE A	40	29.143	37.247	29.467	1.00	8.51	1.00	9.18	9.18	6
ATOM	331	CB ILE A	40	28.091	38.113	30.259	1.00	9.85	1.00	11.32	11.32	6
ATOM	332	CC2 ILE A	40	28.089	38.802	31.613	1.00	9.64	1.00	12.40	12.40	6
ATOM	333	CG1 ILE A	40	27.803	39.287	29.286	1.00	9.52	1.00	12.34	12.34	6
ATOM	334	CD1 ILE A	40	26.594	38.637	28.616	1.00	11.76	1.00	8.70	8.70	6
ATOM	335	C ILE A	40	30.524	37.121	30.063	1.00	8.39	1.00	8.67	8.67	8
ATOM	336	O ILE A	40	30.680	36.373	31.033	1.00	8.04	1.00	8.86	8.86	7
ATOM	337	H PRO A	41	31.571	37.800	29.564	1.00	8.30	1.00	9.11	9.11	6
ATOM	338	CD PRO A	41	31.469	38.773	28.451	1.00	8.06	1.00	9.17	9.17	6
ATOM	339	CA PRO A	41	32.887	37.771	30.151	1.00	8.14	1.00	8.88	8.88	8
ATOM	340	CB PRO A	41	33.802	38.683	29.246	1.00	8.13	1.00	9.05	9.05	8
ATOM	341	CG PRO A	41	32.756	39.565	28.595	1.00	8.01	1.00	9.23	9.23	7
ATOM	342	C PRO A	41	32.846	38.312	31.590	1.00	7.87	1.00	9.17	9.17	6
ATOM	343	O PRO A	41	31.891	38.952	32.039	1.00	7.72	1.00	6.81	6.81	6
ATOM	344	H PRO A	42	33.909	38.044	32.341	1.00	7.64	1.00	5.86	5.86	6
ATOM	345	CD PRO A	42	35.113	37.297	31.880	1.00	7.36	1.00	7.48	7.48	6
ATOM	346	CA PRO A	42	34.084	38.542	33.711	1.00	7.41	1.00	7.62	7.62	8
ATOM	347	CB PRO A	42	35.490	38.085	34.191	1.00	7.45	1.00	5.00	5.00	7
ATOM	348	CG PRO A	42	35.772	36.947	33.217	1.00	7.06	1.00	9.30	9.30	6
ATOM	349	C PRO A	42	33.841	40.054	33.685	1.00	7.06	1.00	9.52	9.52	8
ATOM	350	O PRO A	42	34.481	40.819	32.931	1.00	6.95	1.00	9.20	9.20	7
ATOM	351	H ALA A	43	32.477	41.937	34.481	1.00	6.39	1.00	11.13	11.13	6
ATOM	352	CA ALA A	43	30.968	41.991	34.756	1.00	5.00	1.00	14.96	14.96	8
ATOM	353	CB ALA A	43	33.131	42.845	35.529	1.00	6.36	1.00	8.88	8.88	6
ATOM	354	C ALA A	43	32.847	44.042	35.582	1.00	6.42	1.00	8.96	8.96	8
ATOM	355	O ALA A	43	33.995	42.333	36.394	1.00	6.22	1.00	7.98	7.98	7
ATOM	356	H TYR A	44	34.637	43.052	37.465	1.00	6.10	1.00	8.41	8.41	7
ATOM	357	CA TYR A	44	34.455	42.266	38.819	1.00	6.31	1.00	7.44	7.44	6
ATOM	358	CB TYR A	44	34.381	40.781	38.551	1.00	6.51	1.00	8.58	8.58	6
ATOM	359	CG TYR A	44	35.538	40.086	38.145	1.00	6.67	1.00	8.63	8.63	8
ATOM	360	CD1 TYR A	44	35.472	38.732	37.848	1.00	6.66	1.00	8.06	8.06	8
ATOM	361	CE1 TYR A	44	33.200	40.071	38.613	1.00	6.52	1.00	7.80	7.80	6
ATOM	362	CD2 TYR A	44	33.108	38.722	38.301	1.00	6.55	1.00	7.70	7.70	8
ATOM	363	CE2 TYR A	44	34.276	38.073	37.917	1.00	6.98	1.00	7.56	7.56	7
ATOM	364	C2 TYR A	44	34.209	36.729	37.568	1.00	7.43	1.00	9.45	9.45	6
ATOM	365	OH TYR A	44	36.060	43.413	37.075	1.00	5.99	1.00	12.85	12.85	6
ATOM	366	C TYR A	44	36.682	42.945	36.097	1.00	5.98	1.00	12.76	12.76	8
ATOM	367	O TYR A	44	36.556	44.410	37.815	1.00	5.73	1.00	15.76	15.76	7
ATOM	368	H LYS A	45	37.865	45.003	37.587	1.00	5.00	1.00	12.70	12.70	8
ATOM	369	CA LYS A	45	38.033	46.160	38.580	1.00	5.00	1.00	7.16	7.16	6
ATOM	370	CB LYS A	45	39.192	47.127	38.251	1.00	5.00	1.00			6
ATOM	371	CG LYS A	45									
ATOM	372	CD LYS A	45									
ATOM	373	CE LYS A	45									
ATOM	374	N2 LYS A	45									
ATOM	375	C LYS A	45									
ATOM	376	O LYS A	45									
ATOM	377	H GLY A	46									
ATOM	378	CA GLY A	46									
ATOM	379	C GLY A	46									
ATOM	380	O GLY A	46									
ATOM	381	H LEU A	47									
ATOM	382	CA LEU A	47									
ATOM	383	CB LEU A	47									
ATOM	384	CG LEU A	47									
ATOM	385	CD1 LEU A	47									
ATOM	386	CD2 LEU A	47									
ATOM	387	C LEU A	47									
ATOM	388	O LEU A	47									
ATOM	389	H SER A	48									
ATOM	390	CA SER A	48									
ATOM	391	CB SER A	48									
ATOM	392	OG SER A	48									
ATOM	393	C SER A	48									
ATOM	394	O SER A	48									
ATOM	395	H GLN A	49									
ATOM	396	CA GLN A	49									
ATOM	397	CB GLN A	49									
ATOM	398	CG GLN A	49									
ATOM	399	CD GLN A	49									
ATOM	400	OE1 GLN A	49									
ATOM	401	HE2 GLN A	49									
ATOM	402	C GLN A	49									
ATOM	403	O GLN A	49									
ATOM	404	H SER A	50									
ATOM	405	CA SER A	50									
ATOM	406	CB SER A	50									
ATOM	407	OG SER A	50									
ATOM	408	C SER A	50									
ATOM	409	O SER A	50									
ATOM	410	H ASP A	51									
ATOM	411	CA ASP A	51									
ATOM	412	CB ASP A	51									
ATOM	413	CG ASP A	51									
ATOM	414	CO1 ASP A	51									
ATOM	415	CO2 ASP A	51									
ATOM	416	C ASP A	51									
ATOM	417	O ASP A	51									
ATOM	418	H ASN A	52									
ATOM	419	CA ASN A	52									
ATOM	420	CB ASN A	52									
ATOM	421	CG ASN A	52									
ATOM	422	CO1 ASN A	52									
ATOM	423	CO2 ASN A	52									
ATOM	424	C ASN A	52									

ATOM	425	O	ASH	A	52	38.007	39.399	30.782	1.00	7.11	8
ATOM	426	H	GLY	A	53	39.652	39.949	32.309	1.00	6.67	7
ATOM	427	CA	GLY	A	53	38.832	39.609	33.457	1.00	6.52	6
ATOM	428	C	GLY	A	53	39.262	38.324	34.124	1.00	6.62	6
ATOM	429	O	GLY	A	53	38.726	38.021	35.199	1.00	6.84	8
ATOM	430	H	Tyr	A	54	40.227	37.565	33.548	1.00	6.28	7
ATOM	431	CA	Tyr	A	54	40.722	36.331	34.179	1.00	5.98	6
ATOM	432	CB	Tyr	A	54	41.027	35.227	33.116	1.00	6.06	6
ATOM	433	CG	Tyr	A	54	39.720	34.834	32.427	1.00	5.99	6
ATOM	434	CD	Tyr	A	54	39.481	35.232	31.108	1.00	6.44	6
ATOM	435	CE	Tyr	A	54	38.251	34.920	30.492	1.00	6.68	6
ATOM	436	CE2	Tyr	A	54	38.700	34.194	33.088	1.00	5.97	6
ATOM	437	CE2	Tyr	A	54	37.474	33.857	32.517	1.00	6.05	6
ATOM	438	C2	Tyr	A	54	37.282	34.209	31.182	1.00	6.50	6
ATOM	439	OH	Tyr	A	54	36.083	33.928	30.558	1.00	6.69	8
ATOM	440	C	Tyr	A	54	41.879	36.549	35.145	1.00	5.76	8
ATOM	441	O	Tyr	A	54	42.441	35.655	35.818	1.00	5.63	7
ATOM	442	H	GLY	A	55	42.237	37.799	35.429	1.00	5.53	6
ATOM	443	CA	GLY	A	55	43.226	38.205	36.438	1.00	5.64	6
ATOM	444	C	GLY	A	55	42.464	39.315	37.256	1.00	5.59	6
ATOM	445	O	GLY	A	55	42.818	40.499	37.213	1.00	5.60	8
ATOM	446	H	PRO	A	56	41.410	38.876	37.948	1.00	5.20	7
ATOM	447	CD	PRO	A	56	40.952	37.502	38.113	1.00	5.03	6
ATOM	448	CA	PRO	A	56	40.567	39.757	38.732	1.00	5.12	6
ATOM	449	CB	PRO	A	56	39.282	38.948	39.083	1.00	5.13	6
ATOM	450	CG	PRO	A	56	39.914	37.555	39.212	1.00	5.03	6
ATOM	451	C	PRO	A	56	41.189	40.335	39.998	1.00	5.03	8
ATOM	452	O	PRO	A	56	41.728	39.671	40.862	1.00	5.00	7
ATOM	453	H	Tyr	A	57	41.081	41.640	40.099	1.00	5.00	6
ATOM	454	CA	Tyr	A	57	41.499	42.474	41.207	1.00	5.05	6
ATOM	455	CB	Tyr	A	57	42.042	43.842	40.709	1.00	5.45	6
ATOM	456	CG	Tyr	A	57	42.261	44.833	41.840	1.00	6.29	6
ATOM	457	CD	Tyr	A	57	43.330	44.634	42.730	1.00	6.86	6
ATOM	458	CE	Tyr	A	57	43.521	45.499	43.810	1.00	7.20	6
ATOM	459	CE2	Tyr	A	57	41.421	45.913	42.014	1.00	6.52	6
ATOM	460	CE2	Tyr	A	57	41.634	46.788	43.085	1.00	6.96	6
ATOM	461	C2	Tyr	A	57	42.669	46.566	43.963	1.00	7.37	6
ATOM	462	OH	Tyr	A	57	42.835	47.431	45.036	1.00	7.85	8
ATOM	463	C	Tyr	A	57	40.372	42.683	42.201	1.00	5.00	6
ATOM	464	O	Tyr	A	57	40.546	42.347	43.362	1.00	5.00	8
ATOM	465	H	ASP	A	58	39.210	43.212	41.826	1.00	5.00	7
ATOM	466	CA	ASP	A	58	38.134	43.465	42.771	1.00	5.00	6
ATOM	467	CB	ASP	A	58	38.136	44.990	43.088	1.00	5.00	6
ATOM	468	CG	ASP	A	58	37.210	45.478	44.152	1.00	5.00	6
ATOM	469	CD	ASP	A	58	36.550	44.681	44.829	1.00	5.00	8
ATOM	470	CE	ASP	A	58	36.995	46.702	44.348	1.00	5.00	6
ATOM	471	C	ASP	A	58	36.813	42.974	42.250	1.00	5.00	6
ATOM	472	O	ASP	A	58	36.226	43.643	41.379	1.00	5.00	8
ATOM	473	H	LEU	A	59	36.258	41.917	42.874	1.00	5.00	7
ATOM	474	CA	LEU	A	59	34.967	41.399	42.426	1.00	5.00	6
ATOM	475	CB	LEU	A	59	34.696	40.040	43.128	1.00	6.31	6
ATOM	476	CG	LEU	A	59	35.782	38.942	42.885	1.00	8.19	6
ATOM	477	CD	LEU	A	59	35.479	37.701	43.725	1.00	7.46	6
ATOM	478	CD2	LEU	A	59	35.960	38.571	41.423	1.00	6.96	6
ATOM	479	C	LEU	A	59	33.758	42.311	42.650	1.00	5.05	6
ATOM	480	O	LEU	A	59	32.644	42.112	42.100	1.00	5.00	8
ATOM	481	N	Tyr	A	60	33.921	43.352	43.480	1.00	5.25	7
ATOM	482	CA	Tyr	A	60	32.804	44.266	43.786	1.00	5.52	6
ATOM	483	CB	Tyr	A	60	32.811	44.611	45.271	1.00	5.24	6
ATOM	484	CG	Tyr	A	60	32.214	43.597	46.224	1.00	5.38	6
ATOM	485	CO1	Tyr	A	60	33.101	42.761	46.929	1.00	5.65	6
ATOM	486	CE1	Tyr	A	60	32.646	41.833	47.866	1.00	5.89	6
ATOM	487	CO2	Tyr	A	60	30.855	43.441	46.441	1.00	5.22	6
ATOM	488	CE2	Tyr	A	60	30.359	42.520	47.333	1.00	5.60	6
ATOM	489	C2	Tyr	A	60	31.255	41.742	48.063	1.00	6.27	6
ATOM	490	OH	Tyr	A	60	30.867	40.764	48.957	1.00	6.71	8
ATOM	491	C	Tyr	A	60	32.888	45.540	42.937	1.00	5.77	6
ATOM	492	O	Tyr	A	60	32.117	46.467	43.150	1.00	6.16	8
ATOM	493	N	ASP	A	61	33.824	45.690	42.052	1.00	5.53	7
ATOM	494	CA	ASP	A	61	33.963	46.831	41.196	1.00	5.00	6
ATOM	495	CB	ASP	A	61	35.395	47.325	41.096	1.00	5.28	6
ATOM	496	CG	ASP	A	61	35.635	48.569	40.256	1.00	6.54	8
ATOM	497	CO1	ASP	A	61	34.717	49.013	39.468	1.00	5.00	8
ATOM	498	CO2	ASP	A	61	36.770	49.132	40.203	1.00	6.20	6
ATOM	499	C	ASP	A	61	33.455	46.390	39.790	1.00	6.25	8
ATOM	500	O	ASP	A	61	34.313	45.844	39.065	1.00	6.27	7
ATOM	501	N	LEU	A	62	32.228	46.606	39.374	1.00	6.89	6
ATOM	502	CA	LEU	A	62	31.732	46.208	38.072	1.00	7.43	6
ATOM	503	CB	LEU	A	62	30.242	45.815	38.193	1.00	9.12	6
ATOM	504	CG	LEU	A	62	29.864	44.704	39.231	1.00	6.08	6
ATOM	505	CO1	LEU	A	62	28.372	44.443	39.402	1.00	9.37	6
ATOM	506	CO2	LEU	A	62	30.514	43.357	38.889	1.00	7.56	6
ATOM	507	C	LEU	A	62	31.934	47.317	37.053	1.00	7.76	8
ATOM	508	O	LEU	A	62	31.256	47.422	36.044	1.00	7.95	7
ATOM	509	N	GLY	A	63	32.908	48.240	37.209	1.00	7.98	6
ATOM	510	CA	GLY	A	63	33.125	49.350	36.307	1.00	8.19	6
ATOM	511	C	GLY	A	63	32.529	50.656	36.862	1.00	7.99	8
ATOM	512	O	GLY	A	63	31.954	51.300	36.064	1.00	8.78	7
ATOM	513	N	GLU	A	64	32.685	50.974	38.143	1.00	9.55	6
ATOM	514	CA	GLU	A	64	32.154	52.244	38.659	1.00	10.66	6
ATOM	515	CB	GLU	A	64	30.831	52.051	39.398	1.00	11.34	6
ATOM	516	CG	GLU	A	64	30.916	51.052	40.517	1.00	13.83	8
ATOM	517	CO	GLU	A	64	29.629	50.986	41.856	1.00	16.12	8
ATOM	518	OE1	GLU	A	64	29.203	49.959	41.856	1.00	15.85	8
ATOM	519	OE2	GLU	A	64	28.864	51.950	41.397	1.00	9.91	6
ATOM	520	O	GLU	A	64	33.046	52.958	39.664	1.00	9.88	8
ATOM	521	C	GLU	A	64	32.691	53.987	40.243	1.00	10.20	7
ATOM	522	N	PIE	A	65	34.212	52.363	39.936	1.00	10.39	6
ATOM	523	CA	PIE	A	65	35.172	52.891	40.884	1.00	9.02	6
ATOM	524	CB	PIE	A	65	35.412	51.981	42.114	1.00	8.75	6
ATOM	525	CG	PIE	A	65	34.151	51.662	42.878	1.00	7.83	6
ATOM	526	CO1	PIE	A	65	33.541	50.420	42.829	1.00	7.65	6
ATOM	527	CO2	PIE	A	65	33.508	52.662	43.617	1.00	6.31	6
ATOM	528	CE1	PIE	A	65	32.339	50.164	43.499	1.00	6.18	6
ATOM	529	CE2	PIE	A	65	32.322	52.406	44.296	1.00	6.18	6
ATOM	530	C2	PIE	A	65	31.739	51.138	44.248	1.00	5.83	6

ATOM	531	C	PHE A	65	36.480	53.123	40.126	1.00	10.75	6	ATOM	504	C2	ARG A	72	38.053	51.266	28.054	1.00	5.00	6
ATOM	532	O	PHE A	65	36.935	52.381	39.255	1.00	10.67	0	ATOM	505	NI1	ARG A	72	38.926	51.664	27.158	1.00	5.00	7
ATOM	533	H	GLN A	66	37.091	54.215	40.584	1.00	11.02	7	ATOM	506	NI2	ARG A	72	38.043	50.022	28.506	1.00	5.00	7
ATOM	534	CA	GLN A	66	38.370	54.590	39.964	1.00	11.57	6	ATOM	507	C	ARG A	72	36.316	49.984	33.347	1.00	8.29	6
ATOM	535	CB	GLN A	66	38.512	56.102	40.168	1.00	15.18	6	ATOM	508	O	ARG A	72	37.531	50.080	33.499	1.00	8.41	8
ATOM	536	CG	GLN A	66	39.855	56.661	39.832	1.00	20.59	6	ATOM	509	H	THR A	73	35.700	48.836	33.120	1.00	8.10	7
ATOM	537	CD	GLN A	66	40.150	56.793	38.363	1.00	24.82	6	ATOM	590	CA	THR A	73	36.539	47.632	32.967	1.00	8.12	6
ATOM	538	OE1	GLN A	66	39.958	57.812	37.688	1.00	28.38	8	ATOM	591	CB	THR A	73	35.820	46.301	33.270	1.00	6.10	6
ATOM	539	NE2	GLN A	66	40.716	55.789	37.719	1.00	26.84	7	ATOM	592	OG1	THR A	73	34.727	46.140	32.317	1.00	5.35	8
ATOM	540	O	GLN A	66	39.489	53.768	40.576	1.00	11.54	6	ATOM	593	CG2	THR A	73	35.361	46.223	34.730	1.00	5.00	6
ATOM	541	O	GLN A	66	39.989	54.089	41.699	1.00	11.29	8	ATOM	594	C	THR A	73	36.932	47.628	31.481	1.00	8.12	6
ATOM	542	H	GLN A	67	39.870	52.683	39.895	1.00	11.31	7	ATOM	595	O	THR A	73	36.630	48.581	30.739	1.00	8.16	8
ATOM	543	CA	GLN A	67	40.915	51.786	40.411	1.00	11.24	6	ATOM	596	H	LYS A	74	37.514	46.575	30.939	1.00	8.07	7
ATOM	544	CB	GLN A	67	40.390	50.591	41.201	1.00	9.56	6	ATOM	597	CA	LYS A	74	37.782	46.496	29.508	1.00	7.37	6
ATOM	545	CG	GLN A	67	39.353	50.740	42.242	1.00	7.94	6	ATOM	598	CB	LYS A	74	38.443	45.122	29.215	1.00	7.51	6
ATOM	546	CD	GLN A	67	38.970	49.695	43.240	1.00	6.97	6	ATOM	599	CG	LYS A	74	38.780	44.064	27.777	1.00	7.32	7
ATOM	547	OE1	GLN A	67	39.359	49.865	44.405	1.00	7.23	8	ATOM	600	CD	LYS A	74	39.173	43.465	27.359	1.00	6.71	6
ATOM	548	NE2	GLN A	67	38.222	48.659	42.932	1.00	5.00	7	ATOM	601	CE	LYS A	74	39.463	43.461	25.867	1.00	7.86	6
ATOM	549	C	GLN A	67	41.738	51.246	39.242	1.00	11.63	6	ATOM	602	NZ	LYS A	74	40.043	42.121	25.465	1.00	7.32	7
ATOM	550	O	GLN A	67	41.158	50.867	38.216	1.00	11.46	8	ATOM	603	C	LYS A	74	36.469	46.596	28.696	1.00	7.96	6
ATOM	551	H	LYS A	68	43.063	51.149	39.341	1.00	12.10	7	ATOM	604	O	LYS A	74	36.376	47.163	27.598	1.00	7.92	8
ATOM	552	CA	LYS A	68	43.938	50.664	38.285	1.00	12.61	6	ATOM	605	H	TYR A	75	35.375	46.004	29.221	1.00	7.80	7
ATOM	553	CB	LYS A	68	43.621	49.280	37.709	1.00	13.06	6	ATOM	606	CA	TYR A	75	34.113	45.937	28.503	1.00	7.58	6
ATOM	554	CG	LYS A	68	43.465	48.179	38.780	1.00	14.46	6	ATOM	607	CB	TYR A	75	33.400	44.620	29.024	1.00	7.14	6
ATOM	555	CD	LYS A	68	44.715	48.024	39.626	1.00	15.01	6	ATOM	608	CG	TYR A	75	34.311	43.409	28.864	1.00	6.68	6
ATOM	556	CE	LYS A	68	44.683	47.225	40.918	1.00	14.26	6	ATOM	609	CD1	TYR A	75	34.853	42.777	29.988	1.00	6.37	6
ATOM	557	H2	LYS A	68	46.062	47.066	41.499	1.00	12.89	7	ATOM	610	CE1	TYR A	75	35.716	41.696	29.857	1.00	6.28	6
ATOM	558	C	LYS A	68	43.908	51.710	37.178	1.00	13.39	6	ATOM	611	CD2	TYR A	75	34.677	42.916	27.589	1.00	6.45	6
ATOM	559	O	LYS A	68	43.978	51.422	35.955	1.00	14.41	8	ATOM	612	CE2	TYR A	75	35.547	41.055	27.414	1.00	6.14	6
ATOM	560	H	GLY A	69	43.764	53.001	37.484	1.00	13.13	7	ATOM	613	C2	TYR A	75	36.039	41.257	28.570	1.00	6.25	6
ATOM	561	CA	GLY A	69	43.739	54.115	36.582	1.00	12.76	6	ATOM	614	OH	TYR A	75	36.913	40.195	28.479	1.00	6.33	8
ATOM	562	C	GLY A	69	42.535	54.177	35.674	1.00	12.59	6	ATOM	615	C	TYR A	75	33.108	47.141	28.576	1.00	7.81	6
ATOM	563	O	GLY A	69	42.481	54.975	34.735	1.00	12.74	8	ATOM	616	O	TYR A	75	32.274	47.302	27.713	1.00	7.79	8
ATOM	564	H	THR A	70	41.497	53.394	35.983	1.00	12.05	7	ATOM	617	H	GLY A	76	33.355	48.068	29.555	1.00	7.71	7
ATOM	565	CA	THR A	70	40.325	53.375	35.120	1.00	11.09	6	ATOM	618	CA	GLY A	76	32.468	49.243	29.681	1.00	7.27	6
ATOM	566	CB	THR A	70	40.536	52.215	34.122	1.00	9.79	6	ATOM	619	O	GLY A	76	32.204	49.486	31.152	1.00	7.13	6
ATOM	567	OG1	THR A	70	39.502	52.210	33.117	1.00	10.12	8	ATOM	620	O	GLY A	76	32.841	48.904	32.048	1.00	6.91	8
ATOM	568	CG2	THR A	70	40.547	50.831	34.773	1.00	9.26	6	ATOM	621	N	THR A	77	31.250	50.356	31.425	1.00	7.24	7
ATOM	569	C	THR A	70	39.087	53.169	35.950	1.00	10.63	6	ATOM	622	CA	THR A	77	30.855	50.694	32.813	1.00	7.52	6
ATOM	570	O	THR A	70	39.115	52.524	36.977	1.00	10.42	8	ATOM	623	CB	THR A	77	30.306	52.172	32.914	1.00	7.84	6
ATOM	571	H	VAL A	71	37.978	53.737	35.484	1.00	10.18	7	ATOM	624	OG1	THR A	77	29.223	52.337	32.073	1.00	8.21	8
ATOM	572	CA	VAL A	71	36.690	53.549	36.107	1.00	9.77	6	ATOM	625	CG2	THR A	77	31.378	53.173	32.361	1.00	6.70	6
ATOM	573	CB	VAL A	71	35.802	54.788	35.985	1.00	10.20	6	ATOM	626	C	THR A	77	29.712	49.827	33.304	1.00	7.62	6
ATOM	574	CG1	VAL A	71	34.374	54.448	36.303	1.00	8.33	6	ATOM	627	O	THR A	77	28.984	49.118	32.575	1.00	7.39	8
ATOM	575	CG2	VAL A	71	36.393	55.860	36.919	1.00	9.35	6	ATOM	628	N	LYS A	78	29.460	49.853	34.611	1.00	7.89	7
ATOM	576	C	VAL A	71	35.766	51.299	36.050	1.00	9.37	6	ATOM	629	CA	LYS A	78	28.398	49.084	35.247	1.00	8.24	6
ATOM	577	O	VAL A	71	36.093	52.313	35.404	1.00	9.35	6	ATOM	630	CB	LYS A	78	28.465	49.384	36.759	1.00	8.87	6
ATOM	578	H	ARG A	72	35.766	51.299	36.050	1.00	9.37	6	ATOM	631	CG	LYS A	78	27.449	48.604	37.551	1.00	11.52	6
ATOM	579	CA	ARG A	72	36.007	52.357	34.089	1.00	8.79	7	ATOM	632	CD	LYS A	78	27.592	49.117	39.004	1.00	13.82	6
ATOM	580	CB	ARG A	72	35.449	51.252	33.344	1.00	8.64	6	ATOM	633	CE	LYS A	78	26.681	48.228	39.824	1.00	15.45	6
ATOM	581	CG	ARG A	72	35.205	51.645	31.846	1.00	7.09	6	ATOM	634	NZ	LYS A	78	26.132	49.000	40.954	1.00	18.28	7
ATOM	582	CD	ARG A	72	36.443	51.798	30.962	1.00	6.38	6	ATOM	635	C	LYS A	78	27.022	49.428	34.735	1.00	8.73	6
ATOM	583	HE	ARG A	72	36.054	51.979	29.499	1.00	6.64	6	ATOM	636	O	LYS A	78	26.165	48.565	34.477	1.00	8.67	8
ATOM					37.131	52.071	28.536	1.00	6.31	7											

ATOM	637	H	SER	A	79	26.749	50.759	34.578	1.00	9.32	7
ATOM	638	CA	SER	A	79	25.401	51.141	34.086	1.00	9.71	6
ATOM	639	CB	SER	A	79	25.190	52.607	34.380	1.00	12.14	6
ATOM	640	OG	SER	A	79	25.960	53.338	33.488	1.00	15.84	8
ATOM	641	C	SER	A	79	25.262	50.703	32.644	1.00	9.79	6
ATOM	642	O	SER	A	79	24.142	50.254	32.312	1.00	10.15	8
ATOM	643	H	GLU	A	80	26.291	50.655	31.814	1.00	9.56	7
ATOM	644	CA	GLU	A	80	26.160	50.128	30.452	1.00	9.39	6
ATOM	645	CB	GLU	A	80	27.429	50.452	29.723	1.00	10.04	6
ATOM	646	CG	GLU	A	80	27.546	51.928	29.378	1.00	11.54	6
ATOM	647	CD	GLU	A	80	28.902	52.167	28.769	1.00	14.36	6
ATOM	648	OE1	GLU	A	80	29.881	51.408	28.913	1.00	15.28	8
ATOM	649	OE2	GLU	A	80	29.051	53.186	28.075	1.00	18.22	8
ATOM	650	C	GLU	A	80	25.853	48.629	30.476	1.00	9.05	6
ATOM	651	O	GLU	A	80	25.005	48.179	29.720	1.00	8.72	8
ATOM	652	H	LEU	A	81	26.441	47.873	31.394	1.00	9.09	7
ATOM	653	CA	LEU	A	81	26.145	46.428	31.534	1.00	9.12	6
ATOM	654	CB	LEU	A	81	27.188	45.716	32.385	1.00	8.24	6
ATOM	655	CG	LEU	A	81	26.866	44.272	32.843	1.00	8.68	6
ATOM	656	CD	LEU	A	81	26.744	43.229	31.738	1.00	7.74	6
ATOM	657	CO2	LEU	A	81	27.983	43.841	33.771	1.00	9.60	6
ATOM	658	C	LEU	A	81	24.710	46.226	32.053	1.00	9.19	6
ATOM	659	O	LEU	A	81	23.952	45.386	31.515	1.00	8.94	8
ATOM	660	H	GLN	A	82	24.247	47.005	33.042	1.00	9.33	7
ATOM	661	CA	GLN	A	82	22.853	46.834	33.479	1.00	9.81	6
ATOM	662	CB	GLN	A	82	22.588	47.739	34.681	1.00	11.55	6
ATOM	663	CG	GLN	A	82	23.288	47.993	37.132	1.00	14.62	6
ATOM	664	CD	GLN	A	82	23.497	49.180	36.990	1.00	15.76	8
ATOM	665	OE1	GLN	A	82	22.947	47.380	38.266	1.00	10.18	7
ATOM	666	HE2	GLN	A	82	21.878	47.108	32.358	1.00	10.30	8
ATOM	667	C	GLN	A	82	20.854	46.455	32.247	1.00	10.58	7
ATOM	668	O	GLN	A	82	22.106	48.088	31.501	1.00	11.05	6
ATOM	669	H	ASP	A	83	21.281	48.355	30.317	1.00	15.09	6
ATOM	670	CA	ASP	A	83	21.631	49.619	29.514	1.00	18.79	6
ATOM	671	CB	ASP	A	83	21.228	50.893	30.246	1.00	18.59	8
ATOM	672	CG	ASP	A	83	20.404	50.950	31.175	1.00	18.59	8
ATOM	673	CO1	ASP	A	83	21.832	51.914	29.841	1.00	22.13	8
ATOM	674	CO2	ASP	A	83	21.439	47.203	29.307	1.00	10.81	6
ATOM	675	C	ASP	A	83	20.391	46.942	28.751	1.00	11.02	8
ATOM	676	O	ASP	A	83	22.562	46.574	29.048	1.00	10.32	6
ATOM	677	H	ALA	A	84	22.630	45.461	28.120	1.00	7.64	6
ATOM	678	CA	ALA	A	84	24.057	45.019	27.847	1.00	7.64	6
ATOM	679	CB	ALA	A	84	21.758	44.332	28.688	1.00	10.46	6
ATOM	680	C	ALA	A	84	20.988	43.692	27.939	1.00	10.37	8
ATOM	681	O	ALA	A	84	21.828	44.045	29.995	1.00	10.42	7
ATOM	682	H	ILE	A	85	21.036	42.985	30.642	1.00	10.46	6
ATOM	683	CA	ILE	A	85	21.501	42.710	32.116	1.00	9.71	6
ATOM	684	CB	ILE	A	85	20.474	41.875	32.906	1.00	6.40	6
ATOM	685	CG2	ILE	A	85	22.921	42.132	32.080	1.00	9.01	6
ATOM	686	CG1	ILE	A	85	23.684	42.092	33.399	1.00	10.12	6
ATOM	687	CD1	ILE	A	85	19.543	43.282	30.566	1.00	10.65	6
ATOM	688	C	ILE	A	85	18.768	42.340	30.313	1.00	10.41	8
ATOM	689	O	ILE	A	85						
ATOM	690	H	GLY	A	86	19.100	44.530	30.757	1.00	11.09	7
ATOM	691	CA	GLY	A	86	17.669	44.837	30.621	1.00	11.74	6
ATOM	692	C	GLY	A	86	17.181	44.628	29.181	1.00	12.11	6
ATOM	693	O	GLY	A	86	16.109	44.068	28.922	1.00	12.28	8
ATOM	694	H	SER	A	87	17.881	45.049	28.130	1.00	12.31	7
ATOM	695	CA	SER	A	87	17.451	44.776	28.770	1.00	12.79	6
ATOM	696	CB	SER	A	87	18.466	45.329	25.735	1.00	13.98	6
ATOM	697	OG	SER	A	87	18.420	46.745	26.044	1.00	18.72	8
ATOM	698	C	SER	A	87	17.310	43.266	26.465	1.00	12.80	6
ATOM	699	O	SER	A	87	16.395	42.812	25.776	1.00	12.92	8
ATOM	700	H	LEU	A	88	18.262	42.459	26.958	1.00	12.48	7
ATOM	701	CA	LEU	A	88	18.199	41.020	26.764	1.00	12.30	6
ATOM	702	CB	LEU	A	88	19.475	40.339	27.265	1.00	11.21	6
ATOM	703	CG	LEU	A	88	20.738	40.502	26.420	1.00	10.80	6
ATOM	704	CO1	LEU	A	88	21.896	40.048	27.197	1.00	8.96	6
ATOM	705	CO2	LEU	A	88	20.566	39.947	25.036	1.00	11.89	6
ATOM	706	C	LEU	A	88	16.995	40.443	27.507	1.00	12.23	6
ATOM	707	O	LEU	A	88	16.258	39.575	26.993	1.00	12.29	8
ATOM	708	H	ILE	A	89	16.704	40.866	28.752	1.00	12.11	7
ATOM	709	CA	ILE	A	89	15.679	40.323	29.507	1.00	12.49	6
ATOM	710	CB	ILE	A	89	15.713	40.745	30.987	1.00	11.47	6
ATOM	711	CG	ILE	A	89	16.594	39.915	31.863	1.00	11.05	6
ATOM	712	CO2	ILE	A	89	17.072	38.635	31.719	1.00	11.34	6
ATOM	713	NO1	ILE	A	89	17.117	40.353	33.037	1.00	10.31	7
ATOM	714	CE1	ILE	A	89	17.865	39.425	33.593	1.00	10.84	6
ATOM	715	NE2	ILE	A	89	17.837	38.343	32.823	1.00	11.68	7
ATOM	716	C	ILE	A	89	14.378	40.741	28.838	1.00	13.05	6
ATOM	717	O	ILE	A	89	13.480	39.910	28.764	1.00	12.72	8
ATOM	718	H	SER	A	90	14.275	41.957	28.285	1.00	13.89	7
ATOM	719	CA	SER	A	90	12.957	42.281	27.665	1.00	15.19	6
ATOM	720	CB	SER	A	90	12.784	43.796	27.578	1.00	14.96	6
ATOM	721	OG	SER	A	90	13.761	44.225	26.638	1.00	19.72	8
ATOM	722	C	SER	A	90	12.722	41.472	26.411	1.00	15.94	6
ATOM	723	O	SER	A	90	11.612	41.428	25.924	1.00	15.88	8
ATOM	724	H	ARG	A	91	13.632	40.675	25.854	1.00	16.85	7
ATOM	725	CA	ARG	A	91	13.529	39.799	24.719	1.00	17.41	6
ATOM	726	CB	ARG	A	91	14.651	39.930	23.689	1.00	20.09	6
ATOM	727	CG	ARG	A	91	14.977	41.395	23.474	1.00	23.93	6
ATOM	728	CD	ARG	A	91	14.271	41.859	22.236	1.00	27.09	6
ATOM	729	NE	ARG	A	91	14.479	43.230	22.020	1.00	31.65	7
ATOM	730	C2	ARG	A	91	15.007	44.382	22.298	1.00	33.62	6
ATOM	731	HI1	ARG	A	91	15.035	44.587	23.321	1.00	33.94	7
ATOM	732	HI2	ARG	A	91	14.682	45.428	21.512	1.00	34.30	7
ATOM	733	C	ARG	A	91	13.594	38.341	25.184	1.00	17.75	6
ATOM	734	O	ARG	A	91	13.027	37.473	24.354	1.00	17.92	8
ATOM	735	H	ASN	A	92	13.435	38.126	26.487	1.00	17.94	7
ATOM	736	CA	ASN	A	92	13.471	36.780	27.044	1.00	17.98	6
ATOM	737	CB	ASN	A	92	12.229	35.993	26.546	1.00	24.48	6
ATOM	738	CG	ASN	A	92	11.010	36.657	27.191	1.00	29.10	6
ATOM	739	CO1	ASN	A	92	10.782	36.615	28.414	1.00	31.71	8
ATOM	740	NO2	ASN	A	92	10.235	37.344	26.343	1.00	30.92	7
ATOM	741	C	ASN	A	92	14.740	35.989	26.780	1.00	17.40	6
ATOM	742	O	ASN	A	92	14.762	34.799	26.423	1.00	17.64	8

ATOM	743	H	VAL A	93	15.886	36.642	26.989	1.00	16.55	7	ATOM	796	O	VAL A	99	34.461	31.987	37.850	1.00	6.46	8
ATOM	744	CA	VAL A	93	17.213	36.038	26.833	1.00	15.28	6	ATOM	797	H	VAL A	100	35.082	34.017	38.489	1.00	6.60	7
ATOM	745	CB	VAL A	93	18.120	36.688	25.785	1.00	12.97	6	ATOM	798	CA	VAL A	100	36.487	33.766	38.594	1.00	6.45	6
ATOM	746	CG1	VAL A	93	19.467	36.021	25.589	1.00	11.55	6	ATOM	799	CB	VAL A	100	37.273	34.786	37.735	1.00	6.89	6
ATOM	747	CG2	VAL A	93	17.378	36.751	24.453	1.00	12.58	6	ATOM	800	CG1	VAL A	100	38.728	34.308	37.697	1.00	6.74	6
ATOM	748	O	VAL A	93	17.771	36.161	28.256	1.00	14.60	6	ATOM	801	CG2	VAL A	100	36.761	34.893	36.314	1.00	6.94	6
ATOM	749	O	VAL A	93	17.736	37.228	28.829	1.00	14.36	8	ATOM	802	C	VAL A	100	36.930	33.803	40.041	1.00	6.61	6
ATOM	750	H	GLH A	94	18.211	35.007	28.742	1.00	13.97	7	ATOM	803	O	VAL A	100	37.306	34.866	40.566	1.00	6.72	8
ATOM	751	CA	GLH A	94	18.792	34.812	30.045	1.00	13.10	6	ATOM	804	H	LEU A	101	36.882	32.651	40.724	1.00	6.41	7
ATOM	752	CG	GLH A	94	18.642	33.375	30.542	1.00	13.62	6	ATOM	805	CA	LEU A	101	37.189	32.537	42.133	1.00	6.10	6
ATOM	753	CG	GLH A	94	17.165	33.203	30.919	1.00	16.17	6	ATOM	806	CG	LEU A	101	36.017	31.716	42.731	1.00	7.20	6
ATOM	754	CD	GLH A	94	17.067	31.828	31.552	1.00	19.51	6	ATOM	807	CG	LEU A	101	34.663	32.479	42.645	1.00	8.90	6
ATOM	755	OE1	GLH A	94	17.710	30.855	31.198	1.00	21.76	8	ATOM	808	CD1	LEU A	101	33.657	31.509	43.300	1.00	9.60	6
ATOM	756	HE2	GLH A	94	16.206	31.683	32.559	1.00	21.21	7	ATOM	809	CD2	LEU A	101	34.726	33.873	43.244	1.00	7.63	6
ATOM	757	O	GLH A	94	20.275	35.223	30.003	1.00	12.28	6	ATOM	810	C	LEU A	101	38.456	31.843	42.579	1.00	5.96	6
ATOM	758	O	GLH A	94	20.882	35.311	28.935	1.00	11.92	8	ATOM	811	O	LEU A	101	38.672	31.740	43.782	1.00	6.02	8
ATOM	759	H	VAL A	95	20.772	35.576	31.218	1.00	11.32	7	ATOM	812	H	ASH A	102	39.260	31.326	41.676	1.00	5.73	7
ATOM	760	CA	VAL A	95	22.144	36.030	31.272	1.00	10.46	6	ATOM	813	CA	ASH A	102	40.471	30.629	42.025	1.00	5.58	6
ATOM	761	CB	VAL A	95	22.215	37.553	31.568	1.00	12.03	6	ATOM	814	CB	ASH A	102	40.963	29.889	40.727	1.00	5.00	6
ATOM	762	CG1	VAL A	95	23.646	38.014	31.735	1.00	11.92	6	ATOM	815	CG	ASH A	102	42.327	29.247	40.912	1.00	5.00	6
ATOM	763	CG2	VAL A	95	21.591	38.367	30.411	1.00	12.21	6	ATOM	816	OD1	ASH A	102	42.309	28.218	41.608	1.00	5.00	7
ATOM	764	C	VAL A	95	22.942	35.249	32.302	1.00	9.65	6	ATOM	817	OD2	ASH A	102	43.493	29.633	40.442	1.00	5.00	7
ATOM	765	O	VAL A	95	22.559	35.259	33.483	1.00	9.73	8	ATOM	818	C	ASH A	102	41.580	31.490	42.620	1.00	5.69	6
ATOM	766	H	TIR A	96	24.034	34.613	31.857	1.00	8.90	7	ATOM	819	O	ASH A	102	42.261	31.045	43.593	1.00	6.11	8
ATOM	767	CA	TIR A	96	24.920	33.882	32.786	1.00	8.34	6	ATOM	820	N	HIS A	103	41.853	32.670	42.103	1.00	5.60	7
ATOM	768	CB	TIR A	96	25.217	32.512	32.267	1.00	8.31	6	ATOM	821	CA	HIS A	103	42.935	33.520	42.506	1.00	5.59	6
ATOM	769	CG	TIR A	96	24.055	31.583	31.987	1.00	8.37	6	ATOM	822	CB	HIS A	103	44.089	33.287	41.487	1.00	6.54	6
ATOM	770	CD1	TIR A	96	24.298	30.500	31.130	1.00	8.46	6	ATOM	823	CG	HIS A	103	43.645	33.442	40.043	1.00	7.70	6
ATOM	771	CE1	TIR A	96	23.255	29.643	30.831	1.00	8.30	6	ATOM	824	CD2	HIS A	103	43.560	34.512	39.230	1.00	6.52	6
ATOM	772	CD2	TIR A	96	22.797	31.752	32.491	1.00	8.19	6	ATOM	825	OD1	HIS A	103	43.187	32.341	39.202	1.00	9.01	7
ATOM	773	CE2	TIR A	96	21.742	30.928	32.186	1.00	8.05	6	ATOM	826	CE1	HIS A	103	42.794	32.769	38.082	1.00	8.40	6
ATOM	774	C2	TIR A	96	22.011	29.854	31.363	1.00	7.94	6	ATOM	827	HE2	HIS A	103	42.993	34.113	38.070	1.00	8.31	7
ATOM	775	OH	TIR A	96	21.055	28.940	31.084	1.00	7.64	8	ATOM	828	C	HIS A	103	42.555	34.977	42.419	1.00	5.57	6
ATOM	776	C	TIR A	96	26.218	34.655	33.000	1.00	8.00	6	ATOM	829	O	HIS A	103	41.470	35.229	41.899	1.00	5.20	8
ATOM	777	O	TIR A	96	26.855	35.017	32.005	1.00	7.99	8	ATOM	830	H	LYS A	104	43.438	35.861	42.914	1.00	5.83	7
ATOM	778	H	GLY A	97	26.624	34.919	34.243	1.00	7.85	7	ATOM	831	CA	LYS A	104	43.226	37.313	42.871	1.00	6.01	6
ATOM	779	CA	GLY A	97	27.818	35.671	34.578	1.00	7.64	6	ATOM	832	CB	LYS A	104	42.938	37.971	44.213	1.00	8.00	6
ATOM	780	C	GLY A	97	29.038	34.754	34.756	1.00	7.84	6	ATOM	833	CG	LYS A	104	41.748	37.393	44.978	1.00	8.52	6
ATOM	781	O	GLY A	97	28.950	33.655	35.107	1.00	7.51	8	ATOM	834	CD	LYS A	104	41.373	38.324	46.133	1.00	9.80	6
ATOM	782	H	ASP A	98	30.194	35.231	34.285	1.00	8.04	6	ATOM	835	CE	LYS A	104	40.973	39.748	45.746	1.00	8.97	6
ATOM	783	CA	ASP A	98	31.455	34.489	34.482	1.00	8.04	6	ATOM	836	NZ	LYS A	104	39.514	39.723	45.383	1.00	8.50	7
ATOM	784	CB	ASP A	98	32.546	34.944	33.523	1.00	7.77	6	ATOM	837	C	LYS A	104	44.489	37.094	42.278	1.00	6.11	6
ATOM	785	CG	ASP A	98	33.452	33.828	33.077	1.00	7.80	6	ATOM	838	O	LYS A	104	45.526	37.321	42.649	1.00	6.50	8
ATOM	786	OD1	ASP A	98	33.916	33.045	33.920	1.00	8.28	8	ATOM	839	CA	ALA A	105	44.501	38.896	41.451	1.00	5.96	7
ATOM	787	OD2	ASP A	98	33.791	33.741	31.896	1.00	8.14	8	ATOM	840	CA	ALA A	105	45.699	39.429	40.846	1.00	6.18	6
ATOM	788	O	ASP A	98	31.868	34.668	35.953	1.00	7.80	6	ATOM	841	CB	ALA A	105	45.660	39.063	39.341	1.00	5.88	6
ATOM	789	O	ASP A	98	32.333	33.601	36.602	1.00	7.67	7	ATOM	842	C	ALA A	105	45.705	40.943	41.031	1.00	6.37	6
ATOM	790	CA	VAL A	99	32.708	33.576	38.035	1.00	7.25	6	ATOM	843	O	ALA A	105	44.741	41.578	41.199	1.00	6.24	8
ATOM	791	CA	VAL A	99	31.742	32.652	38.791	1.00	8.70	6	ATOM	844	N	GLY A	106	46.958	41.584	41.044	1.00	6.40	7
ATOM	792	CB	VAL A	99	32.193	32.306	40.195	1.00	9.79	6	ATOM	845	CA	GLY A	106	47.040	43.001	41.190	1.00	6.60	6
ATOM	793	CG1	VAL A	99	30.366	33.362	38.885	1.00	9.90	6	ATOM	846	C	GLY A	106	47.006	43.611	42.573	1.00	7.01	6
ATOM	794	CG2	VAL A	99	34.155	33.123	38.148	1.00	6.81	6	ATOM	847	O	GLY A	106	46.524	44.736	42.659	1.00	6.76	8
ATOM	795	C	VAL A	99							ATOM	848	H	ALA A	107	47.489	42.945	43.637	1.00	7.49	7

ATOM	869	CA	ALA A 107	47.462	43.434	44.979	1.00	7.87	6
ATOM	850	CB	ALA A 107	48.271	42.572	45.920	1.00	5.59	6
ATOM	851	C	ALA A 107	48.055	44.842	44.970	1.00	8.71	6
ATOM	852	O	ALA A 107	48.875	45.204	44.120	1.00	8.95	8
ATOM	853	H	ASP A 108	47.647	45.649	45.934	1.00	9.17	7
ATOM	854	CA	ASP A 108	48.106	47.011	46.130	1.00	9.77	6
ATOM	855	CB	ASP A 108	47.118	47.666	47.155	1.00	10.59	6
ATOM	856	CG	ASP A 108	45.718	47.703	46.582	1.00	10.42	6
ATOM	857	OO1	ASP A 108	44.685	47.094	46.851	1.00	10.41	8
ATOM	858	OO2	ASP A 108	45.580	48.455	45.604	1.00	12.47	8
ATOM	859	C	ASP A 108	49.530	47.044	46.683	1.00	10.18	6
ATOM	860	O	ASP A 108	50.281	48.011	46.478	1.00	10.34	8
ATOM	861	H	ALA A 109	49.958	46.023	47.436	1.00	10.17	7
ATOM	862	CA	ALA A 109	51.273	45.970	48.023	1.00	10.21	6
ATOM	863	CB	ALA A 109	51.271	46.787	49.322	1.00	10.14	6
ATOM	864	C	ALA A 109	51.669	44.553	48.398	1.00	10.56	6
ATOM	865	O	ALA A 109	50.836	43.629	48.473	1.00	10.49	8
ATOM	866	H	THR A 110	52.966	44.438	48.710	1.00	11.01	6
ATOM	867	CA	THR A 110	53.504	43.168	49.132	1.00	11.26	6
ATOM	868	CG1	THR A 110	54.958	42.954	48.705	1.00	11.79	8
ATOM	869	CG2	THR A 110	55.741	43.988	49.294	1.00	11.23	6
ATOM	870	C	THR A 110	55.196	43.055	47.209	1.00	11.37	6
ATOM	871	C	THR A 110	53.445	43.091	50.643	1.00	11.33	8
ATOM	872	H	GLU A 111	53.477	41.851	51.165	1.00	11.70	7
ATOM	873	CA	GLU A 111	53.527	41.504	52.566	1.00	11.89	6
ATOM	874	CB	GLU A 111	52.223	40.870	53.035	1.00	13.17	6
ATOM	875	CG	GLU A 111	51.153	41.995	53.103	1.00	14.55	6
ATOM	876	CG	GLU A 111	49.812	41.428	53.483	1.00	14.72	8
ATOM	877	OE1	GLU A 111	49.365	40.456	52.823	1.00	15.89	8
ATOM	878	OE2	GLU A 111	49.218	41.958	54.436	1.00	15.89	8
ATOM	879	C	GLU A 111	54.697	40.516	52.799	1.00	12.41	6
ATOM	880	O	GLU A 111	55.011	39.715	51.878	1.00	12.22	8
ATOM	881	H	ASP A 112	55.284	40.485	53.981	1.00	12.71	7
ATOM	882	CA	ASP A 112	56.344	39.543	54.283	1.00	13.23	6
ATOM	883	CB	ASP A 112	57.290	39.993	55.380	1.00	18.18	6
ATOM	884	CG	ASP A 112	58.008	41.297	55.120	1.00	21.75	6
ATOM	885	CG	ASP A 112	58.435	41.747	54.039	1.00	23.40	8
ATOM	886	OO1	ASP A 112	58.189	42.024	56.128	1.00	13.29	6
ATOM	887	OO2	ASP A 112	55.666	38.250	54.730	1.00	13.60	8
ATOM	888	O	ASP A 112	54.802	38.272	55.608	1.00	13.04	7
ATOM	889	H	VAL A 113	56.015	37.098	54.155	1.00	13.86	6
ATOM	890	CA	VAL A 113	55.381	35.819	54.410	1.00	12.72	6
ATOM	891	CB	VAL A 113	54.466	35.495	53.205	1.00	13.86	6
ATOM	892	CG1	VAL A 113	53.650	34.192	53.418	1.00	13.68	6
ATOM	893	CG2	VAL A 113	53.423	36.721	52.806	1.00	12.52	6
ATOM	894	C	VAL A 113	56.407	34.721	54.511	1.00	13.55	6
ATOM	895	O	VAL A 113	57.412	34.748	53.765	1.00	12.66	8
ATOM	896	H	THR A 114	56.238	33.728	55.355	1.00	12.21	7
ATOM	897	CA	THR A 114	57.167	32.595	55.443	1.00	11.87	6
ATOM	898	CB	THR A 114	57.212	31.941	56.800	1.00	12.24	6
ATOM	899	CG	THR A 114	57.602	32.955	57.741	1.00	14.04	8
ATOM	900	CG1	THR A 114	58.195	30.781	56.909	1.00	10.63	6
ATOM	901	CG2	THR A 114						
ATOM	902	C	THR A 114	56.563	31.547	54.495	1.00	11.69	6
ATOM	903	O	THR A 114	55.355	31.265	54.457	1.00	11.32	8
ATOM	904	N	ALA A 115	57.429	31.042	53.643	1.00	11.64	7
ATOM	905	CA	ALA A 115	57.024	30.048	52.638	1.00	11.55	6
ATOM	906	CB	ALA A 115	56.825	30.894	51.357	1.00	10.80	6
ATOM	907	C	ALA A 115	58.039	28.947	52.343	1.00	11.45	6
ATOM	908	O	ALA A 115	59.215	29.073	52.888	1.00	11.41	8
ATOM	909	N	VAL A 116	57.641	27.868	51.657	1.00	11.33	7
ATOM	910	CA	VAL A 116	58.513	26.814	51.184	1.00	11.10	6
ATOM	911	CB	VAL A 116	58.338	25.436	51.815	1.00	12.01	6
ATOM	912	CG1	VAL A 116	50.978	25.449	53.208	1.00	12.23	6
ATOM	913	CG2	VAL A 116	56.802	24.978	51.873	1.00	11.15	6
ATOM	914	C	VAL A 116	50.250	26.642	49.656	1.00	10.95	6
ATOM	915	O	VAL A 116	57.100	26.960	49.240	1.00	11.03	8
ATOM	916	H	GLU A 117	59.187	26.205	48.856	1.00	10.29	7
ATOM	917	CA	GLU A 117	58.932	25.098	47.465	1.00	10.06	6
ATOM	918	CB	GLU A 117	60.201	25.861	46.625	1.00	11.90	6
ATOM	919	CG	GLU A 117	60.905	27.201	46.773	1.00	14.30	6
ATOM	920	CD	GLU A 117	62.245	27.143	46.070	1.00	16.13	6
ATOM	921	OE1	GLU A 117	62.515	26.342	45.175	1.00	16.80	8
ATOM	922	OE2	GLU A 117	63.067	28.004	46.366	1.00	17.32	8
ATOM	923	C	GLU A 117	58.354	24.480	47.369	1.00	9.67	6
ATOM	924	O	GLU A 117	58.596	23.656	48.258	1.00	9.47	8
ATOM	925	H	VAL A 118	57.623	24.157	46.316	1.00	9.40	7
ATOM	926	CA	VAL A 118	55.556	23.243	46.543	1.00	9.25	6
ATOM	927	CB	VAL A 118	54.529	23.164	45.421	1.00	10.55	6
ATOM	928	CG1	VAL A 118	55.061	22.664	47.855	1.00	10.49	6
ATOM	929	CG2	VAL A 118	57.360	22.305	44.765	1.00	9.31	6
ATOM	930	C	VAL A 118	57.660	23.097	43.823	1.00	9.23	8
ATOM	931	O	VAL A 118	57.381	20.998	44.492	1.00	8.84	7
ATOM	932	H	ASN A 119	57.701	20.403	43.206	1.00	8.20	6
ATOM	933	CA	ASN A 119	57.911	18.914	43.534	1.00	7.82	6
ATOM	934	CB	ASN A 119	58.248	18.097	42.289	1.00	8.10	6
ATOM	935	CG	ASN A 119	58.084	18.636	41.177	1.00	7.16	8
ATOM	936	OO1	ASN A 119	58.706	16.848	42.386	1.00	6.98	7
ATOM	937	ND2	ASN A 119	56.553	20.692	42.242	1.00	7.98	6
ATOM	938	C	ASN A 119	55.382	20.414	42.482	1.00	7.64	8
ATOM	939	O	ASN A 119	56.833	21.326	41.094	1.00	8.04	7
ATOM	940	N	PRO A 120	58.207	21.735	40.728	1.00	8.00	6
ATOM	941	CD	PRO A 120	55.849	21.704	40.088	1.00	8.27	6
ATOM	942	CA	PRO A 120	56.609	22.404	38.938	1.00	8.21	6
ATOM	943	CB	PRO A 120	57.980	22.618	39.530	1.00	8.16	6
ATOM	944	CG	PRO A 120	55.032	20.526	39.601	1.00	8.65	6
ATOM	945	C	PRO A 120	53.058	20.633	39.275	1.00	8.69	8
ATOM	946	O	PRO A 120	55.648	19.337	39.540	1.00	9.00	7
ATOM	947	H	ALA A 121	54.977	18.104	39.122	1.00	9.39	6
ATOM	948	CA	ALA A 121	55.976	17.215	38.324	1.00	9.49	6
ATOM	949	CB	ALA A 121	54.374	17.315	40.267	1.00	9.46	6
ATOM	950	C	ALA A 121	53.644	16.327	40.066	1.00	9.60	8
ATOM	951	O	ALA A 121	54.624	17.656	41.537	1.00	9.45	7
ATOM	952	H	ASN A 122	54.040	16.971	42.679	1.00	9.32	6
ATOM	953	CA	ASN A 122	54.801	15.802	43.207	1.00	10.30	6
ATOM	954	CB	ASN A 122						

ATOM	955	CG	ASH A 122	54.009	15.047	44.180	1.00	13.39	6	ATOM	1008	C	SER A 128	62.620	23.784	51.617	1.00	18.11	6
ATOM	956	OO1	ASH A 122	53.085	15.591	44.786	1.00	13.50	8	ATOM	1009	O	SER A 128	61.642	23.256	52.161	1.00	17.96	8
ATOM	957	HD2	ASH A 122	54.211	13.733	44.357	1.00	16.10	7	ATOM	1010	H	GLU A 129	63.523	24.444	52.326	1.00	18.90	7
ATOM	958	C	ASH A 122	53.936	18.050	43.742	1.00	9.22	6	ATOM	1011	CA	GLU A 129	63.395	24.747	53.735	1.00	19.85	6
ATOM	959	O	ASH A 122	54.881	18.130	44.566	1.00	9.02	8	ATOM	1012	CB	GLU A 129	64.718	25.038	54.440	1.00	27.78	6
ATOM	960	H	ARG A 123	52.869	18.855	43.722	1.00	9.27	7	ATOM	1013	CG	GLU A 129	64.794	24.360	55.817	1.00	35.30	6
ATOM	961	CA	ARG A 123	52.764	19.983	44.684	1.00	9.23	6	ATOM	1014	CD	GLU A 129	65.311	22.937	55.587	1.00	40.42	6
ATOM	962	CB	ARG A 123	51.675	20.969	44.227	1.00	7.86	6	ATOM	1015	OE1	GLU A 129	66.375	22.866	54.891	1.00	43.75	8
ATOM	963	CG	ARG A 123	52.067	21.746	42.991	1.00	6.67	6	ATOM	1016	OE2	GLU A 129	64.637	21.903	56.055	1.00	42.88	8
ATOM	964	CD	ARG A 123	51.511	21.080	41.764	1.00	6.95	6	ATOM	1017	C	GLU A 129	62.566	26.060	53.737	1.00	19.69	6
ATOM	965	HE	ARG A 123	51.759	21.959	40.604	1.00	9.73	7	ATOM	1018	O	GLU A 129	62.573	26.773	52.713	1.00	19.50	8
ATOM	966	C2	ARG A 123	50.906	22.937	40.275	1.00	10.25	6	ATOM	1019	H	GLU A 130	61.925	26.390	54.849	1.00	19.52	7
ATOM	967	HH1	ARG A 123	49.828	23.054	41.044	1.00	9.79	7	ATOM	1020	CA	GLU A 130	61.150	27.612	54.769	1.00	19.43	6
ATOM	968	HH2	ARG A 123	51.000	23.793	39.273	1.00	10.20	7	ATOM	1021	CB	GLU A 130	60.090	27.530	55.847	1.00	23.57	6
ATOM	969	C	ARG A 123	52.593	19.557	46.158	1.00	9.23	6	ATOM	1022	CG	GLU A 130	60.633	27.773	57.215	1.00	26.39	6
ATOM	970	O	ARG A 124	52.622	20.374	47.085	1.00	8.71	8	ATOM	1023	CD	GLU A 130	59.542	27.368	58.202	1.00	33.34	8
ATOM	971	H	ASH A 124	52.408	18.256	46.379	1.00	9.56	7	ATOM	1024	OE1	GLU A 130	59.493	28.140	59.202	1.00	29.94	6
ATOM	972	CA	ASH A 124	52.351	17.706	47.712	1.00	10.31	6	ATOM	1025	OE2	GLU A 130	58.779	26.388	58.051	1.00	30.50	8
ATOM	973	CB	ASH A 124	51.742	16.299	47.800	1.00	11.34	6	ATOM	1026	C	GLU A 130	61.980	28.851	54.837	1.00	18.97	6
ATOM	974	CG	ASH A 124	50.275	16.347	47.455	1.00	14.21	6	ATOM	1027	O	GLU A 130	63.023	28.894	55.454	1.00	19.04	8
ATOM	975	OO1	ASH A 124	49.565	17.271	47.867	1.00	14.26	8	ATOM	1028	H	TYR A 131	61.506	29.854	54.117	1.00	18.45	7
ATOM	976	HD2	ASH A 124	49.887	15.391	46.590	1.00	16.51	7	ATOM	1029	CA	TYR A 131	62.186	31.164	54.098	1.00	17.87	6
ATOM	977	C	ASH A 124	53.796	17.564	48.243	1.00	10.74	6	ATOM	1030	CB	TYR A 131	63.336	31.254	53.126	1.00	18.14	6
ATOM	978	O	ASH A 125	53.926	17.342	49.439	1.00	10.85	8	ATOM	1031	CG	TYR A 131	63.123	31.022	51.656	1.00	18.56	6
ATOM	979	H	GLN A 125	54.872	17.660	47.433	1.00	10.96	7	ATOM	1032	CE1	TYR A 131	63.015	32.108	50.786	1.00	18.80	6
ATOM	980	CA	GLN A 125	56.223	17.549	47.925	1.00	11.21	6	ATOM	1033	CE1	TYR A 131	62.837	31.915	49.415	1.00	18.78	6
ATOM	981	CB	GLN A 125	57.169	16.823	46.919	1.00	9.50	6	ATOM	1034	CE2	TYR A 131	63.053	29.741	51.125	1.00	18.56	6
ATOM	982	CG	GLN A 125	58.582	16.600	47.498	1.00	8.17	6	ATOM	1035	CE2	TYR A 131	62.856	29.566	48.772	1.00	18.73	6
ATOM	983	CO	GLN A 125	59.546	16.199	46.402	1.00	8.01	6	ATOM	1036	C2	TYR A 131	62.753	30.638	48.908	1.00	18.74	6
ATOM	984	OE1	GLN A 125	59.184	16.310	45.207	1.00	6.56	8	ATOM	1037	OH	TYR A 131	62.618	30.432	47.547	1.00	18.62	8
ATOM	985	NE2	GLN A 125	60.762	15.784	46.738	1.00	11.48	6	ATOM	1038	O	TYR A 131	61.150	32.287	53.841	1.00	17.13	6
ATOM	986	C	GLN A 125	56.871	18.915	48.156	1.00	11.48	6	ATOM	1039	O	TYR A 131	59.992	32.053	53.530	1.00	16.72	8
ATOM	987	O	GLN A 126	56.960	19.609	47.146	1.00	11.44	8	ATOM	1040	H	GLN A 132	61.601	33.503	54.011	1.00	16.51	7
ATOM	988	H	GLU A 126	57.345	19.217	49.360	1.00	11.79	7	ATOM	1041	CA	GLN A 132	60.855	34.718	53.865	1.00	16.10	6
ATOM	989	CA	GLU A 126	58.053	20.468	49.610	1.00	12.46	6	ATOM	1042	CB	GLN A 132	61.459	35.882	54.723	1.00	22.79	6
ATOM	990	CB	GLU A 126	58.042	20.856	51.115	1.00	11.31	6	ATOM	1043	CG	GLN A 132	60.607	35.969	55.997	1.00	29.13	6
ATOM	991	CG	GLU A 126	56.589	20.799	51.582	1.00	12.45	6	ATOM	1044	CD	GLN A 132	61.036	34.850	56.938	1.00	33.56	6
ATOM	992	CD	GLU A 126	56.371	21.288	52.993	1.00	13.36	6	ATOM	1045	OE1	GLN A 132	62.246	34.859	57.308	1.00	37.13	8
ATOM	993	OE1	GLU A 126	56.329	21.471	53.748	1.00	13.22	8	ATOM	1046	NE2	GLN A 132	60.138	33.934	57.337	1.00	34.32	7
ATOM	994	OE2	GLU A 126	55.214	21.519	53.374	1.00	14.72	8	ATOM	1047	C	GLN A 132	60.810	35.316	52.481	1.00	15.05	6
ATOM	995	C	GLU A 126	59.513	20.293	49.195	1.00	12.98	8	ATOM	1048	O	GLN A 133	59.589	35.505	51.972	1.00	13.86	7
ATOM	996	O	GLU A 126	60.198	19.292	49.513	1.00	14.11	7	ATOM	1049	H	ILE A 133	59.401	36.102	50.631	1.00	12.62	6
ATOM	997	H	THR A 127	60.045	21.216	48.430	1.00	14.11	7	ATOM	1050	CA	ILE A 133	58.828	35.111	49.616	1.00	11.38	6
ATOM	998	CA	THR A 127	61.407	21.048	47.954	1.00	15.19	6	ATOM	1051	CB	ILE A 133	59.610	33.787	49.469	1.00	9.01	6
ATOM	999	CB	THR A 127	61.487	21.193	46.420	1.00	14.68	6	ATOM	1052	CG2	ILE A 133	57.374	34.744	49.978	1.00	11.33	6
ATOM	1000	OG1	THR A 127	60.732	22.349	46.071	1.00	15.49	8	ATOM	1053	CG1	ILE A 133	57.374	34.744	49.978	1.00	11.24	6
ATOM	1001	CG2	THR A 127	60.902	19.957	45.774	1.00	13.94	6	ATOM	1054	CD1	ILE A 133	56.601	33.908	48.958	1.00	11.82	6
ATOM	1002	C	THR A 127	62.377	21.993	48.614	1.00	16.26	6	ATOM	1055	C	ILE A 133	58.652	37.381	50.761	1.00	11.18	8
ATOM	1003	O	THR A 127	63.552	21.851	48.283	1.00	16.67	8	ATOM	1056	O	ILE A 133	58.026	37.593	51.790	1.00	11.45	7
ATOM	1004	H	SER A 128	62.015	22.892	49.503	1.00	16.75	7	ATOM	1057	H	LYS A 134	58.611	38.192	49.709	1.00	11.11	6
ATOM	1005	CA	SER A 128	63.000	23.747	50.125	1.00	17.24	6	ATOM	1058	CA	LYS A 134	57.737	39.379	49.674	1.00	12.71	6
ATOM	1006	CB	SER A 128	63.016	25.141	49.511	1.00	15.04	6	ATOM	1059	CB	LYS A 134	58.443	40.661	49.331	1.00	12.71	6
ATOM	1007	OG	SER A 128	61.873	25.859	49.965	1.00	13.39	8	ATOM	1060	CG	LYS A 134	59.019	41.223	50.642	1.00	15.80	6

ATOM	1061	CD	LYS A 134	59.998	42.325	50.294	1.00	19.11	6
ATOM	1062	CE	LYS A 134	59.652	43.476	51.253	1.00	22.58	6
ATOM	1063	H2	LYS A 134	59.863	42.966	52.656	1.00	24.21	7
ATOM	1064	C	LYS A 134	56.683	39.046	48.618	1.00	10.75	6
ATOM	1065	O	LYS A 134	57.075	38.997	47.439	1.00	10.72	8
ATOM	1066	H	ALA A 135	55.444	38.754	48.993	1.00	10.26	7
ATOM	1067	CA	ALA A 135	54.411	38.356	48.046	1.00	8.82	6
ATOM	1068	CB	ALA A 135	53.713	37.071	48.552	1.00	9.45	6
ATOM	1069	C	ALA A 135	53.360	39.428	47.848	1.00	9.62	6
ATOM	1070	O	ALA A 135	53.052	40.158	48.834	1.00	9.91	8
ATOM	1071	H	TRP A 136	52.718	39.492	46.672	1.00	9.28	7
ATOM	1072	CA	TRP A 136	51.676	40.473	46.354	1.00	8.76	6
ATOM	1073	CB	TRP A 136	51.683	40.690	44.846	1.00	9.45	6
ATOM	1074	CG	TRP A 136	52.918	41.438	44.430	1.00	12.78	6
ATOM	1075	CD	TRP A 136	53.068	42.881	44.426	1.00	13.09	6
ATOM	1076	CE	TRP A 136	54.343	43.162	43.888	1.00	14.31	6
ATOM	1077	CE3	TRP A 136	52.224	43.924	44.799	1.00	11.71	6
ATOM	1078	CD1	TRP A 136	54.098	40.924	43.934	1.00	13.83	6
ATOM	1079	HE1	TRP A 136	54.954	41.951	43.599	1.00	15.49	7
ATOM	1080	C22	TRP A 136	54.846	44.456	43.772	1.00	14.17	6
ATOM	1081	C23	TRP A 136	52.680	45.213	44.627	1.00	12.36	6
ATOM	1082	CH2	TRP A 136	53.971	45.463	44.144	1.00	13.78	6
ATOM	1083	C	TRP A 136	50.338	39.995	46.811	1.00	8.40	6
ATOM	1084	O	TRP A 136	49.535	39.452	46.066	1.00	8.39	8
ATOM	1085	H	THR A 137	50.028	40.192	48.086	1.00	8.12	7
ATOM	1086	CB	THR A 137	48.844	39.707	48.761	1.00	7.75	6
ATOM	1087	CG	THR A 137	49.275	38.704	49.884	1.00	7.93	6
ATOM	1088	OG1	THR A 137	50.351	39.218	50.701	1.00	8.77	8
ATOM	1089	CG2	THR A 137	49.847	37.387	49.327	1.00	8.10	6
ATOM	1090	C	THR A 137	48.040	40.772	49.490	1.00	7.59	6
ATOM	1091	O	THR A 137	47.063	40.370	50.112	1.00	7.09	8
ATOM	1092	H	ASP A 138	48.425	42.026	49.486	1.00	7.55	7
ATOM	1093	CA	ASP A 138	47.680	43.038	50.221	1.00	7.91	6
ATOM	1094	CB	ASP A 138	48.667	44.060	50.793	1.00	10.34	6
ATOM	1095	CG	ASP A 138	48.054	45.085	51.742	1.00	14.50	6
ATOM	1096	OO1	ASP A 138	46.820	45.294	51.881	1.00	14.46	8
ATOM	1097	OO2	ASP A 138	48.845	45.781	52.416	1.00	16.18	8
ATOM	1098	C	ASP A 138	46.627	43.671	49.316	1.00	8.01	6
ATOM	1099	O	ASP A 138	47.039	44.379	48.405	1.00	7.97	8
ATOM	1100	H	PIE A 140	45.334	43.427	49.520	1.00	8.44	7
ATOM	1101	CA	PIE A 140	44.298	44.016	48.652	1.00	9.00	6
ATOM	1102	CB	PIE A 140	43.394	43.011	47.964	1.00	7.03	6
ATOM	1103	CG	PIE A 140	44.078	42.176	46.892	1.00	8.72	6
ATOM	1104	CD1	PIE A 140	44.948	41.138	47.287	1.00	7.30	6
ATOM	1105	CD2	PIE A 140	43.835	42.398	45.538	1.00	7.95	6
ATOM	1106	CE1	PIE A 140	45.600	40.359	46.350	1.00	8.84	6
ATOM	1107	CE2	PIE A 140	44.469	41.605	44.591	1.00	8.85	6
ATOM	1108	CZ	PIE A 140	45.335	40.593	44.979	1.00	9.11	6
ATOM	1109	O	PIE A 140	43.461	44.987	49.487	1.00	9.71	8
ATOM	1110	C	PIE A 140	42.707	44.536	50.343	1.00	9.71	8
ATOM	1111	H	ARG A 140	43.599	46.294	49.178	1.00	10.52	7
ATOM	1112	CA	ARG A 140	42.823	47.246	49.985	1.00	11.46	6
ATOM	1113	CB	ARG A 140	43.647	48.263	50.745	1.00	11.79	6
ATOM	1114	CG	ARG A 140	45.059	48.594	50.380	1.00	22.69	6
ATOM	1115	CD	ARG A 140	45.796	48.583	51.753	1.00	27.78	6
ATOM	1116	NE	ARG A 140	47.197	48.785	51.626	1.00	32.35	7
ATOM	1117	CZ	ARG A 140	48.476	48.985	51.487	1.00	34.38	6
ATOM	1118	HH1	ARG A 140	48.873	49.714	50.421	1.00	34.62	7
ATOM	1119	HH2	ARG A 140	49.440	48.518	52.329	1.00	34.86	7
ATOM	1120	C	ARG A 140	41.766	48.037	49.205	1.00	11.28	6
ATOM	1121	O	ARG A 140	40.965	48.699	49.916	1.00	11.54	8
ATOM	1122	H	PIE A 141	41.672	47.993	47.908	1.00	10.83	7
ATOM	1123	CA	PIE A 141	40.554	48.658	47.231	1.00	10.94	6
ATOM	1124	CB	PIE A 141	39.237	47.897	47.618	1.00	8.15	6
ATOM	1125	CG	PIE A 141	39.346	46.381	47.561	1.00	6.78	6
ATOM	1126	CD1	PIE A 141	39.041	45.616	48.673	1.00	5.88	6
ATOM	1127	CD2	PIE A 141	39.793	45.725	46.453	1.00	5.72	6
ATOM	1128	CE1	PIE A 141	39.150	44.225	48.627	1.00	6.27	6
ATOM	1129	CE2	PIE A 141	39.930	44.318	46.407	1.00	5.00	6
ATOM	1130	CZ	PIE A 141	39.607	43.584	47.478	1.00	5.00	6
ATOM	1131	C	PIE A 141	40.372	50.134	47.543	1.00	11.05	6
ATOM	1132	O	PIE A 141	39.377	50.553	48.103	1.00	10.80	8
ATOM	1133	H	PRO A 142	41.402	50.934	47.254	1.00	11.32	7
ATOM	1134	CD	PRO A 142	42.645	50.440	46.634	1.00	11.43	6
ATOM	1135	CA	PRO A 142	41.462	52.384	47.515	1.00	11.27	6
ATOM	1136	CB	PRO A 142	42.900	52.829	47.190	1.00	11.50	6
ATOM	1137	CG	PRO A 142	43.300	51.728	46.191	1.00	11.68	6
ATOM	1138	C	PRO A 142	40.424	53.179	46.766	1.00	11.03	6
ATOM	1139	O	PRO A 142	39.933	54.100	47.431	1.00	11.24	8
ATOM	1140	H	GLY A 143	39.984	52.964	45.545	1.00	10.61	7
ATOM	1141	CA	GLY A 143	38.950	53.703	44.905	1.00	10.26	6
ATOM	1142	C	GLY A 143	37.544	53.272	45.330	1.00	10.29	6
ATOM	1143	O	GLY A 143	36.578	54.011	45.134	1.00	10.11	8
ATOM	1144	H	ARG A 144	37.337	52.102	45.941	1.00	10.41	7
ATOM	1145	CA	ARG A 144	36.034	51.630	46.365	1.00	10.66	6
ATOM	1146	CB	ARG A 144	35.855	50.122	46.066	1.00	6.45	6
ATOM	1147	CG	ARG A 144	34.545	49.572	46.609	1.00	6.10	6
ATOM	1148	CD	ARG A 144	34.074	48.222	46.139	1.00	6.59	6
ATOM	1149	HE	ARG A 144	35.003	47.110	46.397	1.00	7.45	7
ATOM	1150	CZ	ARG A 144	35.062	46.377	47.500	1.00	7.53	6
ATOM	1151	HH1	ARG A 144	35.983	45.402	47.626	1.00	8.54	7
ATOM	1152	HH2	ARG A 144	34.219	46.599	48.511	1.00	6.60	7
ATOM	1153	C	ARG A 144	35.736	51.908	47.869	1.00	11.31	6
ATOM	1154	O	ARG A 144	34.643	52.176	48.348	1.00	11.05	8
ATOM	1155	H	GLY A 145	36.813	51.804	48.658	1.00	11.78	7
ATOM	1156	CA	GLY A 145	36.758	51.954	50.104	1.00	12.35	6
ATOM	1157	C	GLY A 145	35.922	50.757	50.584	1.00	12.97	6
ATOM	1158	O	GLY A 145	36.169	49.601	50.164	1.00	13.33	8
ATOM	1159	H	ASN A 146	34.906	51.057	51.416	1.00	12.95	7
ATOM	1160	CA	ASN A 146	34.070	49.991	51.970	1.00	12.83	6
ATOM	1161	CB	ASN A 146	33.809	50.195	53.493	1.00	15.58	6
ATOM	1162	CG	ASN A 146	35.151	49.936	54.288	1.00	19.40	8
ATOM	1163	OO1	ASN A 146	36.065	49.159	53.989	1.00	20.79	8
ATOM	1164	OO2	ASN A 146	35.264	50.678	55.410	1.00	20.44	7
ATOM	1165	C	ASN A 146	32.689	49.855	51.336	1.00	12.13	6
ATOM	1166	O	ASN A 146	31.905	49.168	52.002	1.00	12.08	8

ATOM	1167	H	THR A 147	32.491	50.456	50.175	1.00	11.60	7	ATOM	1220	N	TRP A 153	41.841	41.875	51.926	1.00	8.13	7
ATOM	1168	CA	THR A 147	31.200	50.351	49.487	1.00	11.26	6	ATOM	1221	CA	TRP A 153	42.585	40.644	51.805	1.00	7.85	6
ATOM	1169	CB	THR A 147	31.164	51.128	48.161	1.00	11.45	6	ATOM	1222	CB	TRP A 153	42.567	40.241	50.293	1.00	6.88	6
ATOM	1170	OG1	THR A 147	31.709	52.445	48.360	1.00	12.12	8	ATOM	1223	CG	TRP A 153	41.174	39.851	49.872	1.00	6.70	6
ATOM	1171	CG2	THR A 147	29.782	51.325	47.548	1.00	9.27	6	ATOM	1224	CD2	TRP A 153	40.681	38.522	49.679	1.00	6.38	6
ATOM	1172	C	THR A 147	30.895	48.884	49.247	1.00	11.00	6	ATOM	1225	CE2	TRP A 153	39.330	38.637	49.270	1.00	7.85	6
ATOM	1173	O	THR A 147	31.757	48.136	48.721	1.00	11.07	8	ATOM	1226	CE3	TRP A 153	41.225	37.236	49.779	1.00	6.59	6
ATOM	1174	H	THR A 148	29.718	48.430	49.662	1.00	10.51	7	ATOM	1227	CD1	TRP A 153	40.139	40.695	49.600	1.00	6.77	6
ATOM	1175	CA	THR A 148	29.245	47.066	49.538	1.00	10.34	6	ATOM	1228	NE1	TRP A 153	39.018	39.986	49.233	1.00	6.86	7
ATOM	1176	CB	THR A 148	29.308	46.455	48.113	1.00	10.35	6	ATOM	1229	CD2	TRP A 153	38.542	37.504	48.986	1.00	7.93	6
ATOM	1177	CG	THR A 148	28.798	47.326	46.967	1.00	9.97	6	ATOM	1230	CD3	TRP A 153	40.477	36.113	49.452	1.00	7.12	6
ATOM	1178	CD1	THR A 148	29.649	47.666	45.916	1.00	9.49	6	ATOM	1231	CD2	TRP A 153	39.128	36.250	49.081	1.00	8.55	6
ATOM	1179	CE1	THR A 148	29.177	48.430	44.845	1.00	9.11	6	ATOM	1232	C	TRP A 153	44.014	40.738	52.256	1.00	7.70	6
ATOM	1180	CD2	THR A 148	27.047	48.636	45.925	1.00	9.73	6	ATOM	1233	O	TRP A 153	44.633	41.770	52.009	1.00	7.67	7
ATOM	1181	CE2	THR A 148	27.896	48.914	44.844	1.00	8.99	6	ATOM	1234	H	HIS A 154	44.568	39.706	52.892	1.00	7.67	7
ATOM	1182	CZ	THR A 148	27.441	49.705	43.833	1.00	8.37	8	ATOM	1235	CA	HIS A 154	45.937	39.586	53.334	1.00	7.24	6
ATOM	1183	OH	THR A 148	29.940	46.030	50.426	1.00	10.22	6	ATOM	1236	CB	HIS A 154	46.112	39.730	54.859	1.00	7.92	6
ATOM	1184	C	THR A 148	29.299	45.054	50.827	1.00	10.08	8	ATOM	1237	CG	HIS A 154	45.804	41.145	55.233	1.00	8.88	6
ATOM	1185	O	THR A 148	31.224	46.159	50.757	1.00	10.07	7	ATOM	1238	CD2	HIS A 154	44.674	41.660	55.765	1.00	9.84	6
ATOM	1186	H	SER A 149	31.879	45.141	51.584	1.00	9.52	6	ATOM	1239	ND1	HIS A 154	46.672	42.197	55.006	1.00	10.11	7
ATOM	1187	CA	SER A 149	32.256	43.886	50.787	1.00	9.75	6	ATOM	1240	CE1	HIS A 154	46.113	43.304	55.428	1.00	10.55	6
ATOM	1188	CB	SER A 149	33.396	43.185	51.181	1.00	8.96	8	ATOM	1241	NE2	HIS A 154	44.890	43.016	55.840	1.00	10.76	7
ATOM	1189	OG	SER A 149	33.141	45.735	52.164	1.00	9.63	6	ATOM	1242	C	HIS A 154	46.508	38.207	52.960	1.00	6.90	6
ATOM	1190	C	SER A 149	33.897	46.334	51.423	1.00	9.31	8	ATOM	1243	O	HIS A 154	45.778	37.294	52.603	1.00	6.75	8
ATOM	1191	O	SER A 149	33.270	45.588	53.502	1.00	9.75	7	ATOM	1244	H	TRP A 155	47.839	38.056	53.102	1.00	6.82	7
ATOM	1192	H	ASP A 150	34.497	46.155	54.053	1.00	9.98	6	ATOM	1245	CA	TRP A 155	48.508	36.802	52.800	1.00	6.92	6
ATOM	1193	CA	ASP A 150	34.153	46.816	55.365	1.00	13.89	6	ATOM	1246	CB	TRP A 155	49.994	36.800	53.254	1.00	6.54	6
ATOM	1194	CB	ASP A 150	33.646	45.849	56.403	1.00	17.64	6	ATOM	1247	CG	TRP A 155	50.190	36.808	54.726	1.00	6.55	6
ATOM	1195	CG	ASP A 150	33.340	44.644	56.213	1.00	18.84	8	ATOM	1248	CD2	TRP A 155	50.282	35.636	55.575	1.00	7.16	6
ATOM	1196	CD1	ASP A 150	33.560	46.260	57.579	1.00	20.98	8	ATOM	1249	CE2	TRP A 155	50.473	36.099	56.900	1.00	8.10	6
ATOM	1197	C	ASP A 150	35.545	45.049	54.125	1.00	9.95	6	ATOM	1250	CE3	TRP A 155	50.261	34.254	55.319	1.00	7.58	6
ATOM	1198	O	ASP A 150	36.570	45.334	54.761	1.00	10.38	8	ATOM	1251	CD1	TRP A 155	50.311	37.912	55.567	1.00	7.09	6
ATOM	1199	O	ASP A 150	35.472	43.865	53.541	1.00	9.49	7	ATOM	1252	NE1	TRP A 155	50.496	37.495	56.870	1.00	7.83	7
ATOM	1200	CA	PHE A 151	36.518	42.860	53.667	1.00	8.88	6	ATOM	1253	CE2	TRP A 155	50.582	35.208	57.972	1.00	9.47	6
ATOM	1201	CB	PHE A 151	35.932	41.523	53.167	1.00	10.40	6	ATOM	1254	CD3	TRP A 155	50.372	33.377	56.355	1.00	8.70	6
ATOM	1202	CG	PHE A 151	36.761	40.297	53.405	1.00	12.18	6	ATOM	1255	CH2	TRP A 155	50.556	33.847	57.685	1.00	9.74	6
ATOM	1203	CG	PHE A 151	36.689	39.627	54.620	1.00	14.04	6	ATOM	1256	C	TRP A 155	47.807	35.600	53.420	1.00	6.90	6
ATOM	1204	CD1	PHE A 151	37.623	39.804	52.455	1.00	12.75	6	ATOM	1257	O	TRP A 155	47.749	34.576	52.755	1.00	6.82	8
ATOM	1205	CD2	PHE A 151	37.481	38.471	54.849	1.00	15.14	6	ATOM	1258	H	TYR A 156	46.692	34.492	55.283	1.00	6.91	6
ATOM	1206	CE1	PHE A 151	38.380	38.647	52.644	1.00	12.08	6	ATOM	1259	CA	TYR A 156	46.619	34.685	56.813	1.00	7.50	6
ATOM	1207	CE2	PHE A 151	38.308	37.976	53.849	1.00	13.39	6	ATOM	1260	CB	TYR A 156	46.056	36.003	57.270	1.00	8.16	6
ATOM	1208	CZ	PHE A 151	37.748	43.217	52.864	1.00	8.54	6	ATOM	1261	CG	TYR A 156	44.665	36.114	57.420	1.00	8.64	6
ATOM	1209	C	PHE A 151	37.762	43.556	51.675	1.00	8.21	8	ATOM	1262	CD1	TYR A 156	44.049	37.302	57.839	1.00	8.68	6
ATOM	1210	O	PHE A 151	38.899	43.119	53.477	1.00	8.50	7	ATOM	1263	CE1	TYR A 156	46.829	37.094	57.597	1.00	8.54	6
ATOM	1211	H	LYS A 152	40.228	43.377	52.979	1.00	8.62	6	ATOM	1264	CD2	TYR A 156	46.254	38.298	58.052	1.00	8.83	6
ATOM	1212	CA	LYS A 152	40.989	44.385	53.849	1.00	10.86	6	ATOM	1265	CE2	TYR A 156	44.870	38.365	58.159	1.00	8.97	6
ATOM	1213	CB	LYS A 152	40.384	45.787	54.073	1.00	11.07	6	ATOM	1266	CZ	TYR A 156	44.271	39.510	58.597	1.00	9.48	8
ATOM	1214	CG	LYS A 152	39.941	46.481	52.798	1.00	11.11	6	ATOM	1267	OH	TYR A 156	45.351	34.041	54.691	1.00	6.48	8
ATOM	1215	CD	LYS A 152	39.350	47.830	53.236	1.00	12.45	6	ATOM	1268	C	TYR A 156	44.907	32.991	55.146	1.00	6.37	8
ATOM	1216	CE	LYS A 152	38.434	48.440	52.290	1.00	15.39	7	ATOM	1269	O	TYR A 156	44.751	34.691	53.719	1.00	5.96	7
ATOM	1217	H2	LYS A 152	41.038	42.082	52.958	1.00	8.53	6	ATOM	1270	N	HIS A 157	43.567	34.321	53.016	1.00	5.71	6
ATOM	1218	C	LYS A 152	40.938	41.290	53.892	1.00	8.53	8	ATOM	1271	CA	HIS A 157	42.768	35.566	52.552	1.00	5.00	6
ATOM	1219	O	LYS A 152							ATOM	1272	CB	HIS A 157						

ATOM	1273	CG	HIS A 157	42.236	36.398	53.732	1.00	5.00	6
ATOM	1274	C02	HIS A 157	41.620	36.018	54.866	1.00	5.00	6
ATOM	1275	H01	HIS A 157	42.426	37.765	53.793	1.00	5.10	7
ATOM	1276	CE1	HIS A 157	41.800	38.216	54.935	1.00	6.49	6
ATOM	1277	HE2	HIS A 157	41.398	37.147	55.588	1.00	5.12	7
ATOM	1278	C	HIS A 157	43.896	33.473	51.753	1.00	5.75	6
ATOM	1279	O	HIS A 157	43.028	33.056	50.978	1.00	5.63	8
ATOM	1280	H	PHE A 158	45.182	33.311	51.471	1.00	5.60	7
ATOM	1281	CB	PHE A 158	45.722	32.597	50.312	1.00	5.84	6
ATOM	1282	CA	PHE A 158	46.578	33.527	49.412	1.00	5.00	6
ATOM	1283	CG	PHE A 158	45.867	34.784	48.992	1.00	5.00	6
ATOM	1284	C01	PHE A 158	46.099	35.994	49.658	1.00	5.00	6
ATOM	1285	C02	PHE A 158	44.972	34.788	47.942	1.00	5.00	6
ATOM	1286	CE1	PHE A 158	45.418	37.147	49.286	1.00	6.00	6
ATOM	1287	CE2	PHE A 158	44.300	35.931	47.568	1.00	5.36	6
ATOM	1288	C2	PHE A 158	44.494	37.129	48.230	1.00	5.65	6
ATOM	1289	C	PHE A 158	46.580	31.365	50.692	1.00	5.86	6
ATOM	1290	O	PHE A 158	47.192	31.311	51.800	1.00	5.59	8
ATOM	1291	H	ASP A 159	46.638	30.354	49.804	1.00	5.50	6
ATOM	1292	CA	ASP A 159	47.461	29.211	50.022	1.00	5.30	6
ATOM	1293	CB	ASP A 159	46.924	27.979	49.262	1.00	5.00	6
ATOM	1294	CG	ASP A 159	45.876	27.378	50.090	1.00	5.58	6
ATOM	1295	C01	ASP A 159	45.988	27.501	51.360	1.00	8.12	8
ATOM	1296	C02	ASP A 159	44.852	26.813	49.700	1.00	5.00	8
ATOM	1297	C	ASP A 159	48.876	29.377	49.478	1.00	5.70	6
ATOM	1298	O	ASP A 159	49.808	28.719	49.999	1.00	6.04	8
ATOM	1299	H	GLY A 160	49.083	30.164	48.464	1.00	5.67	7
ATOM	1300	CA	GLY A 160	50.438	30.251	47.914	1.00	6.24	6
ATOM	1301	C	GLY A 160	50.472	31.296	46.798	1.00	6.82	6
ATOM	1302	O	GLY A 160	49.389	31.807	46.477	1.00	6.74	8
ATOM	1303	H	ALA A 161	51.622	31.520	46.224	1.00	7.20	7
ATOM	1304	CA	ALA A 161	51.756	32.488	45.174	1.00	8.08	6
ATOM	1305	CB	ALA A 161	52.023	33.869	45.775	1.00	8.88	6
ATOM	1306	C	ALA A 161	52.933	32.083	44.297	1.00	9.05	8
ATOM	1307	O	ALA A 161	53.582	31.055	44.591	1.00	8.86	8
ATOM	1308	H	ASP A 162	53.158	32.846	43.215	1.00	10.00	7
ATOM	1309	CA	ASP A 162	54.278	32.418	42.372	1.00	11.36	6
ATOM	1310	CB	ASP A 162	53.786	32.031	40.983	1.00	15.10	6
ATOM	1311	CG	ASP A 162	53.111	33.242	40.352	1.00	19.35	6
ATOM	1312	C01	ASP A 162	52.930	34.331	40.947	1.00	19.47	8
ATOM	1313	C02	ASP A 162	52.725	32.956	39.169	1.00	22.93	8
ATOM	1314	C	ASP A 162	55.381	33.455	42.149	1.00	11.95	6
ATOM	1315	O	ASP A 162	56.107	33.336	41.131	1.00	12.10	8
ATOM	1316	H	TRP A 163	55.489	34.435	43.048	1.00	12.03	7
ATOM	1317	CA	TRP A 163	56.533	35.418	42.793	1.00	12.34	6
ATOM	1318	CB	TRP A 163	55.925	36.485	41.881	1.00	12.40	6
ATOM	1319	CG	TRP A 163	56.925	37.600	41.631	1.00	13.20	6
ATOM	1320	C02	TRP A 163	58.014	37.602	40.715	1.00	14.18	6
ATOM	1321	CE2	TRP A 163	58.646	38.869	40.826	1.00	15.32	6
ATOM	1322	CE3	TRP A 163	58.520	36.667	39.803	1.00	14.71	6
ATOM	1323	C01	TRP A 163	56.950	38.813	42.245	1.00	13.62	6
ATOM	1324	HE1	TRP A 163	57.980	39.589	41.774	1.00	13.74	7
ATOM	1325	C22	TRP A 163	59.757	39.243	40.036	1.00	16.07	6
ATOM	1326	C23	TRP A 163	59.639	37.017	39.066	1.00	14.61	6
ATOM	1327	CH2	TRP A 163	60.210	38.279	39.139	1.00	16.01	6
ATOM	1328	C	TRP A 163	57.008	35.969	44.102	1.00	12.82	6
ATOM	1329	O	TRP A 163	56.225	36.180	45.012	1.00	12.72	8
ATOM	1330	H	ASP A 164	58.298	36.130	44.243	1.00	13.51	7
ATOM	1331	CA	ASP A 164	58.961	36.679	45.420	1.00	14.00	6
ATOM	1332	CB	ASP A 164	60.073	35.796	45.937	1.00	13.67	6
ATOM	1333	CG	ASP A 164	60.891	36.513	47.003	1.00	14.44	6
ATOM	1334	C01	ASP A 164	60.392	37.464	47.682	1.00	14.14	8
ATOM	1335	C02	ASP A 164	62.070	36.096	47.155	1.00	15.41	8
ATOM	1336	C	ASP A 164	59.560	38.004	44.913	1.00	14.37	6
ATOM	1337	O	ASP A 164	60.491	37.969	44.125	1.00	14.14	8
ATOM	1338	H	GLU A 165	59.024	39.109	45.390	1.00	14.96	7
ATOM	1339	CA	GLU A 165	59.449	40.429	44.953	1.00	15.64	6
ATOM	1340	CB	GLU A 165	58.453	41.456	45.446	1.00	15.08	6
ATOM	1341	CG	GLU A 165	58.724	42.887	45.070	1.00	16.95	6
ATOM	1342	C	GLU A 165	58.627	43.079	43.584	1.00	18.88	6
ATOM	1343	OE1	GLU A 165	59.126	44.095	43.075	1.00	22.59	8
ATOM	1344	OE2	GLU A 165	58.071	42.208	42.822	1.00	19.30	8
ATOM	1345	C	GLU A 165	60.843	40.736	45.498	1.00	16.33	6
ATOM	1346	O	GLU A 165	61.504	41.590	44.951	1.00	16.30	8
ATOM	1347	H	SER A 166	61.227	40.104	46.593	1.00	16.71	7
ATOM	1348	CA	SER A 166	62.499	40.241	47.255	1.00	17.88	6
ATOM	1349	CB	SER A 166	62.471	39.215	48.415	1.00	17.88	6
ATOM	1350	CG	SER A 166	63.157	39.838	49.443	1.00	21.31	8
ATOM	1351	C	SER A 166	63.694	39.857	46.363	1.00	17.59	6
ATOM	1352	O	SER A 166	64.511	40.670	45.931	1.00	17.48	8
ATOM	1353	H	ARG A 167	63.756	38.534	46.062	1.00	17.53	7
ATOM	1354	CA	ARG A 167	64.754	37.962	45.202	1.00	17.50	6
ATOM	1355	CB	ARG A 167	64.972	36.483	45.538	1.00	18.49	6
ATOM	1356	CG	ARG A 167	65.372	36.319	46.984	1.00	19.67	6
ATOM	1357	CD	ARG A 167	65.413	34.810	47.294	1.00	22.11	6
ATOM	1358	HE	ARG A 167	65.554	34.699	48.736	1.00	24.69	7
ATOM	1359	C2	ARG A 167	64.638	35.047	49.658	1.00	27.34	6
ATOM	1360	HN1	ARG A 167	63.420	35.550	49.443	1.00	28.95	7
ATOM	1361	HN2	ARG A 167	65.027	34.853	50.954	1.00	28.95	7
ATOM	1362	C	ARG A 167	64.344	38.047	43.729	1.00	17.36	6
ATOM	1363	O	ARG A 167	65.179	37.757	42.880	1.00	17.29	7
ATOM	1364	H	LYS A 168	63.124	38.406	43.306	1.00	17.27	6
ATOM	1365	CA	LYS A 168	62.636	38.491	42.048	1.00	20.36	6
ATOM	1366	CB	LYS A 168	63.318	39.579	41.203	1.00	23.95	6
ATOM	1367	CG	LYS A 168	62.818	40.920	41.752	1.00	26.67	6
ATOM	1368	CD	LYS A 168	63.605	42.120	41.269	1.00	28.90	6
ATOM	1369	CE	LYS A 168	62.855	43.415	41.686	1.00	30.66	7
ATOM	1370	NZ	LYS A 168	62.830	43.494	43.201	1.00	17.23	6
ATOM	1371	C	LYS A 168	62.766	37.148	41.332	1.00	17.13	8
ATOM	1372	O	LYS A 168	63.337	37.062	40.229	1.00	16.95	7
ATOM	1373	H	ILE A 169	62.203	36.106	41.956	1.00	16.59	7
ATOM	1374	CA	ILE A 169	62.199	34.766	41.380	1.00	17.17	6
ATOM	1375	CB	ILE A 169	63.086	33.751	42.115	1.00	16.91	6
ATOM	1376	CG	ILE A 169	64.599	34.139	42.040	1.00	17.77	6
ATOM	1377	CG1	ILE A 169	62.641	33.597	43.557	1.00	18.17	6
ATOM	1378	CG1	ILE A 169	63.595	32.811	44.434	1.00	18.17	6

ATOM	1379	C	ILE A 169	60.768	34.265	41.354	1.00	16.43	6	ATOM	1432	CE1	PIE A 175	50.443	33.823	50.320	1.00	7.64	6
ATOM	1380	O	ILE A 169	59.894	34.602	42.175	1.00	15.97	8	ATOM	1433	CE2	PIE A 175	52.585	33.103	49.614	1.00	6.81	6
ATOM	1381	H	SER A 170	60.458	33.469	40.342	1.00	16.39	7	ATOM	1434	CZ	PIE A 175	51.517	33.983	49.476	1.00	7.21	6
ATOM	1382	CA	SER A 170	59.209	32.808	40.120	1.00	16.32	6	ATOM	1435	C	PIE A 175	52.567	28.942	53.770	1.00	11.49	6
ATOM	1383	CB	SER A 170	58.830	32.767	38.642	1.00	18.20	6	ATOM	1436	O	PIE A 175	51.868	27.912	53.875	1.00	11.44	8
ATOM	1384	OG	SER A 170	57.519	32.181	38.607	1.00	22.81	8	ATOM	1437	H	ARG A 176	53.288	29.352	54.813	1.00	11.77	7
ATOM	1385	C	SER A 170	59.306	31.335	40.518	1.00	16.18	6	ATOM	1438	CA	ARG A 176	53.328	28.725	56.129	1.00	12.20	6
ATOM	1386	O	SER A 170	60.106	30.599	39.908	1.00	16.17	8	ATOM	1439	CB	ARG A 176	54.684	28.802	56.775	1.00	13.53	6
ATOM	1387	H	ARG A 171	58.531	30.882	41.508	1.00	15.84	7	ATOM	1440	CG	ARG A 176	55.768	27.776	56.372	1.00	14.88	6
ATOM	1388	CA	ARG A 171	58.504	29.492	41.954	1.00	15.28	6	ATOM	1441	CD	ARG A 176	55.108	26.438	56.823	1.00	15.37	6
ATOM	1389	CB	ARG A 171	59.448	29.168	43.104	1.00	17.32	6	ATOM	1442	HE	ARG A 176	56.133	25.355	56.737	1.00	15.69	7
ATOM	1390	CG	ARG A 171	60.894	29.497	43.152	1.00	19.88	6	ATOM	1443	CZ	ARG A 176	56.118	24.277	55.962	1.00	16.02	6
ATOM	1391	CD	ARG A 171	61.825	28.448	42.555	1.00	23.48	6	ATOM	1444	HH1	ARG A 176	55.150	24.037	55.065	1.00	16.35	7
ATOM	1392	HE	ARG A 171	63.204	28.981	42.466	1.00	27.05	7	ATOM	1445	HH2	ARG A 176	57.151	23.430	56.062	1.00	16.02	7
ATOM	1393	CZ	ARG A 171	63.661	29.577	41.358	1.00	29.43	6	ATOM	1446	C	ARG A 176	52.330	29.526	56.994	1.00	12.82	6
ATOM	1394	HH1	ARG A 171	62.909	29.718	40.256	1.00	30.87	7	ATOM	1447	O	ARG A 176	52.303	30.774	56.778	1.00	13.07	7
ATOM	1395	HH2	ARG A 171	64.884	30.070	41.191	1.00	30.59	7	ATOM	1448	H	GLY A 177	51.560	28.911	57.850	1.00	13.84	6
ATOM	1396	C	ARG A 171	57.052	29.164	42.380	1.00	14.63	6	ATOM	1449	CA	GLY A 177	50.590	29.656	58.637	1.00	13.84	6
ATOM	1397	O	ARG A 171	56.203	30.055	42.313	1.00	14.71	8	ATOM	1450	C	GLY A 177	49.736	28.715	59.449	1.00	14.51	6
ATOM	1398	H	ILE A 172	56.737	27.949	42.824	1.00	13.80	7	ATOM	1451	O	GLY A 177	50.056	27.482	59.489	1.00	15.11	8
ATOM	1399	CA	ILE A 172	55.389	27.671	43.336	1.00	13.02	6	ATOM	1452	H	GLU A 178	48.649	29.125	60.069	1.00	14.47	7
ATOM	1400	CB	ILE A 172	54.752	26.357	42.862	1.00	11.93	6	ATOM	1453	CA	GLU A 178	47.810	28.222	60.859	1.00	14.86	6
ATOM	1401	CG1	ILE A 172	53.502	26.058	43.656	1.00	11.06	6	ATOM	1454	CB	GLU A 178	46.912	29.021	61.833	1.00	15.74	6
ATOM	1402	CG1	ILE A 172	54.360	26.386	41.354	1.00	11.59	6	ATOM	1455	CG	GLU A 178	47.575	29.715	63.000	1.00	16.47	6
ATOM	1403	CG1	ILE A 172	53.920	25.010	40.927	1.00	12.67	6	ATOM	1456	CD	GLU A 178	48.458	28.762	63.819	1.00	18.26	6
ATOM	1404	C	ILE A 172	55.639	27.730	44.867	1.00	12.55	6	ATOM	1457	OE1	GLU A 178	48.216	27.504	63.969	1.00	19.50	8
ATOM	1405	O	ILE A 172	56.218	26.808	45.469	1.00	12.52	8	ATOM	1458	OE2	GLU A 178	49.408	29.266	64.326	1.00	16.85	8
ATOM	1406	H	PHE A 173	55.290	28.812	45.529	1.00	11.95	7	ATOM	1459	C	GLU A 178	46.961	27.310	59.957	1.00	15.02	6
ATOM	1407	CA	PIE A 173	55.464	28.982	46.956	1.00	11.52	6	ATOM	1460	O	GLU A 178	47.138	27.801	59.151	1.00	15.35	8
ATOM	1408	CB	PHE A 173	55.813	30.424	47.326	1.00	8.63	6	ATOM	1461	H	GLY A 179	46.148	26.015	60.032	1.00	14.81	7
ATOM	1409	CG	PHE A 173	57.088	30.932	46.719	1.00	8.19	6	ATOM	1462	CA	GLY A 179	46.450	25.042	59.221	1.00	14.68	6
ATOM	1410	CD1	PHE A 173	57.085	31.845	45.697	1.00	6.97	6	ATOM	1463	C	GLY A 179	46.692	25.221	57.702	1.00	14.28	6
ATOM	1411	CD2	PHE A 173	58.313	30.470	47.211	1.00	8.07	6	ATOM	1464	O	GLY A 179	45.709	24.906	56.979	1.00	14.54	8
ATOM	1412	CE1	PHE A 173	58.277	32.307	45.123	1.00	8.69	6	ATOM	1465	H	LYS A 180	47.854	25.708	57.243	1.00	13.43	7
ATOM	1413	CE2	PHE A 173	59.512	30.949	46.686	1.00	8.72	6	ATOM	1466	CA	LYS A 180	48.022	25.959	55.824	1.00	12.55	6
ATOM	1414	CZ	PHE A 173	59.484	31.844	45.607	1.00	7.75	6	ATOM	1467	CB	LYS A 180	49.163	26.955	55.631	1.00	11.48	6
ATOM	1415	C	PIE A 173	54.189	28.583	47.688	1.00	11.50	6	ATOM	1468	CG	LYS A 180	48.825	28.409	55.816	1.00	11.89	6
ATOM	1416	O	PIE A 173	53.109	29.085	47.372	1.00	11.79	8	ATOM	1469	CD	LYS A 180	47.710	28.914	54.938	1.00	9.28	6
ATOM	1417	H	LYS A 174	54.257	27.696	48.657	1.00	11.28	7	ATOM	1470	CE	LYS A 180	47.355	30.371	55.116	1.00	9.37	6
ATOM	1418	CA	LYS A 174	53.185	27.303	49.524	1.00	11.02	6	ATOM	1471	HZ	LYS A 180	46.097	30.683	54.339	1.00	9.60	7
ATOM	1419	CB	LYS A 174	53.268	25.849	49.981	1.00	7.54	6	ATOM	1472	C	LYS A 180	48.271	24.676	55.037	1.00	12.15	6
ATOM	1420	CG	LYS A 174	52.045	25.443	50.770	1.00	6.03	6	ATOM	1473	O	LYS A 180	49.150	23.919	55.465	1.00	12.30	8
ATOM	1421	CD	LYS A 174	51.880	23.947	50.993	1.00	5.90	6	ATOM	1474	H	ALA A 181	47.571	24.402	53.925	1.00	11.19	7
ATOM	1422	CE	LYS A 174	53.109	23.439	51.713	1.00	6.00	6	ATOM	1475	CA	ALA A 181	47.792	23.208	53.139	1.00	10.23	6
ATOM	1423	HZ	LYS A 174	52.991	22.034	52.176	1.00	5.20	7	ATOM	1476	CB	ALA A 181	47.183	21.975	53.825	1.00	8.27	6
ATOM	1424	C	LYS A 174	53.313	28.195	50.787	1.00	11.19	6	ATOM	1477	C	ALA A 181	47.120	23.287	51.761	1.00	9.57	6
ATOM	1425	O	LYS A 174	54.402	28.117	51.406	1.00	11.32	8	ATOM	1478	O	ALA A 181	46.125	23.952	51.862	1.00	8.95	8
ATOM	1426	H	PHE A 175	52.357	28.950	51.264	1.00	11.10	7	ATOM	1479	H	TRP A 182	47.457	22.762	50.604	1.00	8.86	7
ATOM	1427	CA	PHE A 175	52.555	29.759	52.486	1.00	11.23	6	ATOM	1480	CA	TRP A 182	46.604	22.929	49.465	1.00	8.54	6
ATOM	1428	CB	PHE A 175	51.440	30.845	52.516	1.00	9.58	6	ATOM	1481	CB	TRP A 182	47.232	22.145	48.309	1.00	6.73	6
ATOM	1429	CG	PHE A 175	51.497	31.920	51.427	1.00	9.11	6	ATOM	1482	CG	TRP A 182	48.624	22.609	47.966	1.00	5.79	6
ATOM	1430	CD1	PHE A 175	50.410	32.806	51.283	1.00	8.73	6	ATOM	1483	CD2	TRP A 182	49.003	23.922	47.558	1.00	5.00	6
ATOM	1431	CD2	PHE A 175	52.569	32.097	50.557	1.00	7.13	6	ATOM	1484	CE2	TRP A 182	50.388	23.887	47.314	1.00	5.13	6

ATOM	1485	CE3	TRP	A	182	48.278	25.127	47.361	1.00	5.00	6
ATOM	1486	CD1	TRP	A	182	49.768	21.861	48.002	1.00	5.63	6
ATOM	1487	HE1	TRP	A	182	50.860	22.616	47.616	1.00	5.04	7
ATOM	1488	C22	TRP	A	182	51.110	25.022	46.895	1.00	5.00	6
ATOM	1489	C23	TRP	A	182	48.966	26.236	46.927	1.00	5.00	6
ATOM	1490	CH2	TRP	A	182	50.376	26.186	46.723	1.00	5.00	6
ATOM	1491	C	TRP	A	182	45.218	22.348	49.787	1.00	8.52	6
ATOM	1492	O	TRP	A	182	45.029	21.400	50.552	1.00	8.24	8
ATOM	1493	H	ASP	A	183	44.187	22.939	49.183	1.00	8.61	7
ATOM	1494	CA	ASP	A	183	42.814	22.546	49.339	1.00	8.57	6
ATOM	1495	CB	ASP	A	183	41.746	23.407	48.669	1.00	7.64	6
ATOM	1496	CG	ASP	A	183	41.829	24.846	49.207	1.00	7.97	6
ATOM	1497	CO1	ASP	A	183	42.136	25.011	50.384	1.00	5.19	8
ATOM	1498	CO2	ASP	A	183	41.604	25.903	48.623	1.00	7.20	8
ATOM	1499	C	ASP	A	183	42.678	21.163	48.661	1.00	8.68	6
ATOM	1500	O	ASP	A	183	43.392	20.764	47.757	1.00	8.29	8
ATOM	1501	H	TRP	A	184	41.655	20.526	49.221	1.00	8.85	7
ATOM	1502	CA	TRP	A	184	41.337	19.214	48.816	1.00	9.16	6
ATOM	1503	CB	TRP	A	184	42.068	18.015	49.485	1.00	9.16	6
ATOM	1504	CG	TRP	A	184	41.858	16.719	48.814	1.00	9.24	6
ATOM	1505	CD2	TRP	A	184	42.391	16.211	47.580	1.00	9.60	6
ATOM	1506	CE2	TRP	A	184	43.240	16.730	46.594	1.00	8.61	6
ATOM	1507	CE3	TRP	A	184	41.009	15.713	49.300	1.00	10.78	6
ATOM	1508	HE1	TRP	A	184	41.019	14.620	48.426	1.00	9.86	7
ATOM	1509	C22	TRP	A	184	42.149	14.151	46.250	1.00	9.85	6
ATOM	1510	C23	TRP	A	184	43.547	15.968	45.479	1.00	9.71	6
ATOM	1511	CH2	TRP	A	184	43.008	14.693	45.314	1.00	9.96	6
ATOM	1512	C	TRP	A	184	39.766	18.960	48.936	1.00	9.70	6
ATOM	1513	O	TRP	A	184	39.093	19.322	49.789	1.00	10.01	8
ATOM	1514	H	GLU	A	185	39.594	18.432	47.785	1.00	9.88	7
ATOM	1515	CA	GLU	A	185	39.263	17.724	46.655	1.00	9.32	6
ATOM	1516	CB	GLU	A	185	38.201	16.707	46.321	1.00	11.19	6
ATOM	1517	CG	GLU	A	185	38.829	15.901	45.132	1.00	11.41	6
ATOM	1518	CD1	GLU	A	185	38.070	14.631	44.814	1.00	13.77	6
ATOM	1519	CD2	GLU	A	185	37.147	14.228	45.559	1.00	14.04	8
ATOM	1520	OE1	GLU	A	185	38.349	14.001	43.768	1.00	14.41	8
ATOM	1521	OE2	GLU	A	185	39.394	18.759	45.479	1.00	8.92	8
ATOM	1522	C	GLU	A	185	38.591	19.636	45.294	1.00	8.34	7
ATOM	1523	O	GLU	A	185	40.502	18.566	44.792	1.00	8.78	6
ATOM	1524	H	VAL	A	186	40.810	19.326	43.583	1.00	8.33	6
ATOM	1525	CA	VAL	A	186	41.807	20.506	43.735	1.00	8.32	6
ATOM	1526	CB	VAL	A	186	41.196	21.617	44.616	1.00	7.05	6
ATOM	1527	CG1	VAL	A	186	43.173	20.110	44.308	1.00	5.20	6
ATOM	1528	CG2	VAL	A	186	41.364	18.291	42.578	1.00	8.42	6
ATOM	1529	C	VAL	A	186	41.505	17.111	42.956	1.00	8.25	8
ATOM	1530	H	VAL	A	186	41.735	18.666	41.367	1.00	8.40	7
ATOM	1531	H	SER	A	187	42.313	17.723	40.445	1.00	8.96	6
ATOM	1532	CA	SER	A	187	42.664	18.422	39.113	1.00	8.96	6
ATOM	1533	CB	SER	A	187	43.472	17.537	38.328	1.00	8.65	8
ATOM	1534	OG	SER	A	187	43.603	17.153	41.060	1.00	9.46	6
ATOM	1535	C	SER	A	187	44.375	17.887	41.684	1.00	9.28	8
ATOM	1536	O	SER	A	188	43.908	15.846	40.823	1.00	9.77	7
ATOM	1537	H	SER	A	188						
ATOM	1538	CA	SER	A	188	45.109	15.208	41.353	1.00	9.72	6
ATOM	1539	CB	SER	A	188	44.906	13.770	41.859	1.00	10.83	6
ATOM	1540	OG	SER	A	188	44.547	12.983	40.714	1.00	12.11	8
ATOM	1541	C	SER	A	188	46.215	15.213	40.288	1.00	9.72	6
ATOM	1542	O	SER	A	188	47.239	14.540	40.529	1.00	9.62	8
ATOM	1543	H	GLU	A	189	46.009	15.968	39.192	1.00	9.48	7
ATOM	1544	CA	GLU	A	189	47.091	16.143	38.252	1.00	9.58	6
ATOM	1545	CB	GLU	A	189	46.761	17.025	37.029	1.00	12.65	6
ATOM	1546	CG	GLU	A	189	45.655	16.361	36.202	1.00	14.93	6
ATOM	1547	CD	GLU	A	189	44.958	17.419	35.359	1.00	16.59	6
ATOM	1548	OE1	GLU	A	189	44.060	18.118	35.868	1.00	16.06	8
ATOM	1549	OE2	GLU	A	189	45.364	17.496	34.187	1.00	19.90	8
ATOM	1550	C	GLU	A	189	48.208	16.888	38.998	1.00	9.38	6
ATOM	1551	O	GLU	A	189	47.948	17.852	39.783	1.00	9.35	8
ATOM	1552	H	ASN	A	190	49.447	16.512	38.785	1.00	9.02	7
ATOM	1553	CA	ASN	A	190	50.591	17.137	39.437	1.00	8.98	6
ATOM	1554	CB	ASN	A	190	50.708	18.629	39.139	1.00	11.63	6
ATOM	1555	CG	ASN	A	190	50.842	19.067	37.714	1.00	13.22	6
ATOM	1556	CD1	ASN	A	190	51.553	18.489	36.913	1.00	13.96	8
ATOM	1557	CD2	ASN	A	190	50.145	20.093	37.234	1.00	14.84	7
ATOM	1558	C	ASN	A	190	50.540	16.928	40.959	1.00	8.84	6
ATOM	1559	O	ASN	A	190	51.020	17.773	41.750	1.00	9.06	7
ATOM	1560	H	GLY	A	191	49.949	15.854	41.439	1.00	8.36	8
ATOM	1561	CA	GLY	A	191	49.772	15.467	42.809	1.00	7.95	6
ATOM	1562	C	GLY	A	191	48.597	16.148	43.430	1.00	7.74	6
ATOM	1563	O	GLY	A	191	47.747	15.586	44.065	1.00	7.89	8
ATOM	1564	H	ASN	A	192	48.537	17.450	43.284	1.00	7.66	7
ATOM	1565	CA	ASN	A	192	47.472	18.353	43.732	1.00	7.21	6
ATOM	1566	CB	ASN	A	192	47.596	18.649	45.227	1.00	8.14	6
ATOM	1567	CG	ASN	A	192	46.628	19.665	45.785	1.00	7.93	6
ATOM	1568	CD1	ASN	A	192	46.584	20.794	45.287	1.00	8.55	8
ATOM	1569	CD2	ASN	A	192	45.839	19.388	46.805	1.00	7.17	7
ATOM	1570	C	ASN	A	192	47.572	19.615	42.863	1.00	6.90	6
ATOM	1571	O	ASN	A	192	48.574	20.328	42.910	1.00	6.77	7
ATOM	1572	H	TYR	A	193	46.517	19.081	42.099	1.00	7.00	6
ATOM	1573	CA	TYR	A	193	46.405	20.986	41.210	1.00	7.52	6
ATOM	1574	CB	TYR	A	193	45.725	20.535	39.867	1.00	7.52	6
ATOM	1575	CG	TYR	A	193	46.218	20.596	37.385	1.00	8.97	6
ATOM	1576	CD1	TYR	A	193	46.841	21.143	38.659	1.00	8.30	6
ATOM	1577	CD2	TYR	A	193	47.096	22.301	38.738	1.00	8.68	6
ATOM	1578	CE1	TYR	A	193	47.695	22.928	37.673	1.00	9.08	6
ATOM	1579	CE2	TYR	A	193	47.564	22.343	36.424	1.00	9.29	6
ATOM	1580	C2	TYR	A	193	48.177	22.966	35.361	1.00	9.62	8
ATOM	1581	OH	TYR	A	193	45.646	22.201	41.776	1.00	6.92	6
ATOM	1582	C	TYR	A	193	45.034	22.979	41.061	1.00	6.78	8
ATOM	1583	O	TYR	A	193	45.662	22.448	43.066	1.00	6.98	7
ATOM	1584	N	ASP	A	194	45.102	23.587	43.773	1.00	6.81	6
ATOM	1585	CA	ASP	A	194	45.338	23.579	45.279	1.00	7.26	6
ATOM	1586	CB	ASP	A	194	44.586	24.609	46.082	1.00	8.65	6
ATOM	1587	CG	ASP	A	194	43.590	25.127	45.523	1.00	9.18	8
ATOM	1588	CO1	ASP	A	194	44.730	24.922	47.280	1.00	8.87	8
ATOM	1589	CO2	ASP	A	194	45.815	24.809	43.156	1.00	6.63	6
ATOM	1590	C	ASP	A	194						

1591	ATOM	O	ASP A 194	45.143	25.681	42.616	1.00	6.42	8
1592	ATOM	H	TYR A 195	47.129	24.919	43.145	1.00	6.43	7
1593	ATOM	CA	TYR A 195	47.781	26.059	42.596	1.00	6.19	6
1594	ATOM	CB	TYR A 195	49.261	26.101	43.153	1.00	5.52	6
1595	ATOM	CG	TYR A 195	49.722	27.472	42.821	1.00	5.15	6
1596	ATOM	CD1	TYR A 195	49.314	28.569	43.582	1.00	5.28	6
1597	ATOM	CE1	TYR A 195	49.676	29.862	43.186	1.00	5.27	6
1598	ATOM	CE2	TYR A 195	50.456	27.686	41.665	1.00	5.05	6
1599	ATOM	CE2	TYR A 195	50.809	28.972	41.246	1.00	5.06	6
1600	ATOM	CZ	TYR A 195	50.386	30.053	42.030	1.00	5.27	8
1601	ATOM	OH	TYR A 195	50.742	31.310	41.636	1.00	5.27	8
1602	ATOM	C	TYR A 195	47.730	26.123	41.082	1.00	6.74	8
1603	ATOM	O	TYR A 195	48.128	25.186	40.392	1.00	6.74	8
1604	ATOM	H	LEU A 196	47.329	27.323	40.580	1.00	7.17	7
1605	ATOM	CA	LEU A 196	47.346	27.572	39.148	1.00	7.71	6
1606	ATOM	CB	LEU A 196	45.962	27.721	38.510	1.00	6.89	6
1607	ATOM	CG	LEU A 196	45.988	28.100	37.020	1.00	8.29	6
1608	ATOM	CD1	LEU A 196	46.520	28.975	36.126	1.00	6.67	6
1609	ATOM	CD2	LEU A 196	44.578	28.516	36.621	1.00	7.69	6
1610	ATOM	C	LEU A 196	48.181	28.816	38.807	1.00	7.86	6
1611	ATOM	H	LEU A 196	49.162	28.671	38.073	1.00	7.98	8
1612	ATOM	H	HET A 197	47.861	29.990	39.319	1.00	7.94	7
1613	ATOM	CA	HET A 197	48.577	31.228	39.029	1.00	8.00	6
1614	ATOM	CB	HET A 197	48.230	31.699	37.613	1.00	11.16	6
1615	ATOM	CG	HET A 197	46.758	32.064	37.445	1.00	15.62	6
1616	ATOM	SD	HET A 197	46.223	32.419	35.732	1.00	22.83	16
1617	ATOM	CE	HET A 197	47.695	33.237	35.117	1.00	21.60	6
1618	ATOM	C	HET A 197	48.157	32.310	40.032	1.00	7.71	6
1619	ATOM	O	HET A 197	47.200	32.162	40.792	1.00	7.22	8
1620	ATOM	H	TYR A 198	48.875	33.421	39.997	1.00	7.95	7
1621	ATOM	CA	TYR A 198	48.725	34.595	40.849	1.00	8.22	6
1622	ATOM	CB	TYR A 198	47.512	35.420	40.476	1.00	9.23	6
1623	ATOM	CG	TYR A 198	47.601	35.991	39.081	1.00	10.99	6
1624	ATOM	CE1	TYR A 198	46.600	35.690	38.145	1.00	11.90	6
1625	ATOM	CE1	TYR A 198	46.655	36.230	36.875	1.00	12.83	6
1626	ATOM	CE2	TYR A 198	48.664	36.817	38.741	1.00	11.91	6
1627	ATOM	CE2	TYR A 198	48.745	37.364	37.443	1.00	12.82	6
1628	ATOM	C	TYR A 198	47.741	37.045	36.538	1.00	13.43	6
1629	ATOM	OH	TYR A 198	47.797	37.589	35.261	1.00	14.37	8
1630	ATOM	C	TYR A 198	48.629	34.167	42.312	1.00	7.86	6
1631	ATOM	O	TYR A 198	49.362	33.257	42.693	1.00	7.88	8
1632	ATOM	H	ALA A 199	47.769	34.787	43.117	1.00	7.31	7
1633	ATOM	CA	ALA A 199	47.563	34.481	44.537	1.00	6.22	6
1634	ATOM	CB	ALA A 199	47.321	35.747	45.359	1.00	6.68	6
1635	ATOM	C	ALA A 199	46.389	33.523	44.687	1.00	5.38	6
1636	ATOM	O	ALA A 199	45.255	33.918	44.370	1.00	5.00	8
1637	ATOM	H	ASP A 200	46.702	32.319	45.148	1.00	5.09	7
1638	ATOM	CA	ASP A 200	45.748	31.224	45.295	1.00	5.00	6
1639	ATOM	CB	ASP A 200	46.567	29.901	45.278	1.00	5.25	6
1640	ATOM	CG	ASP A 200	45.495	28.798	45.141	1.00	6.80	6
1641	ATOM	CO1	ASP A 200	44.912	28.830	44.024	1.00	6.41	8
1642	ATOM	CO2	ASP A 200	45.139	27.965	46.011	1.00	6.48	8
1643	ATOM	C	ASP A 200	44.879	31.313	46.526	1.00	5.00	6
1644	ATOM	O	ASP A 200	45.308	31.320	47.681	1.00	5.31	8
1645	ATOM	H	VAL A 201	43.567	31.445	46.359	1.00	5.00	7
1646	ATOM	CA	VAL A 201	42.610	31.603	47.446	1.00	5.00	6
1647	ATOM	CB	VAL A 201	41.215	31.999	46.911	1.00	5.00	6
1648	ATOM	CG1	VAL A 201	40.249	32.082	48.070	1.00	5.00	6
1649	ATOM	CG2	VAL A 201	41.205	33.336	46.136	1.00	5.00	6
1650	ATOM	C	VAL A 201	42.542	30.306	48.243	1.00	5.00	6
1651	ATOM	O	VAL A 201	42.387	29.199	47.732	1.00	5.00	8
1652	ATOM	H	ASP A 202	42.605	30.491	49.571	1.00	5.00	7
1653	ATOM	CA	ASP A 202	42.519	29.430	50.556	1.00	5.82	6
1654	ATOM	CB	ASP A 202	43.337	29.878	51.801	1.00	5.82	6
1655	ATOM	CG	ASP A 202	43.437	28.834	52.876	1.00	6.39	6
1656	ATOM	CO1	ASP A 202	42.805	27.761	52.605	1.00	5.70	8
1657	ATOM	CO2	ASP A 202	44.017	28.814	53.965	1.00	6.27	8
1658	ATOM	C	ASP A 202	41.060	29.141	50.949	1.00	5.00	6
1659	ATOM	O	ASP A 202	40.518	29.810	51.838	1.00	5.00	8
1660	ATOM	H	TYR A 203	40.418	28.138	50.330	1.00	5.00	7
1661	ATOM	CA	TYR A 203	39.019	27.825	50.636	1.00	5.09	6
1662	ATOM	CB	TYR A 203	30.234	27.239	49.448	1.00	5.00	6
1663	ATOM	CG	TYR A 203	38.008	28.366	48.426	1.00	5.00	6
1664	ATOM	CO1	TYR A 203	38.653	28.457	47.236	1.00	5.00	6
1665	ATOM	CO2	TYR A 203	38.449	29.510	46.379	1.00	5.00	6
1666	ATOM	CE1	TYR A 203	37.124	29.393	48.827	1.00	5.05	6
1667	ATOM	CE2	TYR A 203	36.914	30.493	47.963	1.00	5.07	6
1668	ATOM	CH	TYR A 203	37.577	30.536	46.763	1.00	5.13	6
1669	ATOM	O	TYR A 203	37.355	31.607	45.918	1.00	5.71	8
1670	ATOM	C	TYR A 203	38.899	26.963	51.897	1.00	5.73	6
1671	ATOM	O	TYR A 203	37.783	26.505	52.205	1.00	5.91	8
1672	ATOM	H	ASP A 204	39.942	26.807	52.703	1.00	6.06	7
1673	ATOM	CA	ASP A 204	39.083	26.202	54.010	1.00	6.93	6
1674	ATOM	CB	ASP A 204	41.108	25.454	54.543	1.00	7.71	6
1675	ATOM	CG	ASP A 204	41.389	24.192	53.738	1.00	9.87	6
1676	ATOM	CO1	ASP A 204	40.413	23.443	53.469	1.00	11.60	8
1677	ATOM	CO2	ASP A 204	42.553	23.870	53.354	1.00	10.31	8
1678	ATOM	C	ASP A 204	39.632	27.395	55.016	1.00	7.25	8
1679	ATOM	O	ASP A 204	39.231	27.113	56.154	1.00	7.19	8
1680	ATOM	H	ASP A 204	39.838	28.671	54.654	1.00	7.01	7
1681	ATOM	CA	ASP A 205	39.660	29.773	55.659	1.00	7.00	6
1682	ATOM	CB	ASP A 205	40.519	30.961	55.174	1.00	5.97	6
1683	ATOM	CG	ASP A 205	40.566	32.025	56.220	1.00	7.15	6
1684	ATOM	CO1	ASP A 205	39.590	32.773	56.780	1.00	5.16	6
1685	ATOM	CO2	ASP A 205	41.751	32.331	56.910	1.00	8.31	7
1686	ATOM	CE1	ASP A 205	41.525	33.260	57.828	1.00	6.29	6
1687	ATOM	CE2	ASP A 205	40.214	33.513	57.752	1.00	8.24	7
1688	ATOM	C	ASP A 205	38.199	30.050	55.824	1.00	7.15	6
1689	ATOM	O	ASP A 205	37.511	30.307	54.825	1.00	7.72	8
1690	ATOM	H	PRO A 206	37.579	29.986	56.988	1.00	6.98	7
1691	ATOM	CA	PRO A 206	38.242	29.637	58.262	1.00	6.83	6
1692	ATOM	CB	PRO A 206	36.134	30.164	57.160	1.00	6.77	6
1693	ATOM	CG	PRO A 206	35.776	29.837	58.641	1.00	6.82	6
1694	ATOM	CO1	PRO A 206	37.146	30.071	59.263	1.00	6.98	6
1695	ATOM	CO2	PRO A 206	35.653	31.549	56.764	1.00	6.49	6
1696	ATOM	C	PRO A 206	34.527	31.608	56.238	1.00	6.33	8

ATOM	1697	H	ASP A 207	36.466	32.591	56.971	1.00	6.12	7	ATOM	1750	CA	LYS A 214	28.061	36.774	50.337	1.00	7.39	6
ATOM	1698	CA	ASP A 207	36.056	33.949	56.613	1.00	6.05	6	ATOM	1751	CB	LYS A 214	28.638	37.530	51.539	1.00	11.90	6
ATOM	1699	CB	ASP A 207	36.954	35.059	57.168	1.00	6.37	6	ATOM	1752	CG	LYS A 214	28.423	39.011	51.741	1.00	17.64	6
ATOM	1700	CG	ASP A 207	36.964	35.075	58.705	1.00	6.87	6	ATOM	1753	CD	LYS A 214	29.354	39.548	52.915	1.00	22.01	6
ATOM	1701	OO1	ASP A 207	36.208	34.392	59.396	1.00	6.00	8	ATOM	1754	CE	LYS A 214	29.770	41.017	52.697	1.00	24.62	6
ATOM	1702	OO2	ASP A 207	37.779	35.836	59.261	1.00	7.95	8	ATOM	1755	HZ	LYS A 214	31.138	41.472	53.171	1.00	24.85	7
ATOM	1703	C	ASP A 207	36.033	34.139	55.096	1.00	6.17	6	ATOM	1756	C	LYS A 214	28.290	37.533	49.021	1.00	7.07	6
ATOM	1704	O	ASP A 207	35.225	34.906	54.573	1.00	5.78	8	ATOM	1757	O	LYS A 214	27.317	30.174	48.561	1.00	7.02	8
ATOM	1705	H	VAL A 208	36.985	33.441	54.427	1.00	6.47	7	ATOM	1758	N	TRP A 215	29.401	37.502	48.430	1.00	6.68	7
ATOM	1706	CA	VAL A 208	37.054	33.472	52.973	1.00	6.58	6	ATOM	1759	CA	TRP A 215	29.726	38.173	47.140	1.00	6.58	6
ATOM	1707	CB	VAL A 208	38.353	32.859	52.465	1.00	7.47	6	ATOM	1760	CG	TRP A 215	31.216	38.139	46.715	1.00	5.00	6
ATOM	1708	CG1	VAL A 208	38.292	32.594	50.949	1.00	7.06	6	ATOM	1761	CG	TRP A 215	31.353	38.622	45.281	1.00	5.00	6
ATOM	1709	CG2	VAL A 208	35.795	32.784	52.805	1.00	6.71	6	ATOM	1762	CD2	TRP A 215	31.410	37.741	44.122	1.00	5.00	6
ATOM	1710	C	VAL A 208	35.103	33.349	51.530	1.00	6.95	8	ATOM	1763	CE2	TRP A 215	31.427	38.544	43.980	1.00	5.00	6
ATOM	1711	O	VAL A 208	35.436	31.598	52.923	1.00	6.93	7	ATOM	1764	CE3	TRP A 215	31.455	36.349	43.808	1.00	5.00	6
ATOM	1712	H	VAL A 209	34.257	30.881	52.457	1.00	7.00	6	ATOM	1765	CD1	TRP A 215	31.355	39.909	44.808	1.00	5.00	7
ATOM	1713	CA	VAL A 209	34.140	29.527	53.170	1.00	5.34	6	ATOM	1766	HE1	TRP A 215	31.418	39.874	43.430	1.00	5.00	6
ATOM	1714	CB	VAL A 209	32.865	28.784	52.814	1.00	5.00	6	ATOM	1767	CE2	TRP A 215	31.507	38.008	41.720	1.00	5.18	6
ATOM	1715	CG1	VAL A 209	35.346	28.638	52.878	1.00	5.00	6	ATOM	1768	CH2	TRP A 215	31.494	35.789	42.707	1.00	5.00	6
ATOM	1716	CG2	VAL A 209	32.996	31.743	52.652	1.00	7.32	6	ATOM	1769	CH2	TRP A 215	31.534	36.649	41.559	1.00	5.00	6
ATOM	1717	C	VAL A 209	32.199	31.882	51.684	1.00	7.35	8	ATOM	1770	C	TRP A 215	28.836	37.573	46.045	1.00	6.80	6
ATOM	1718	O	VAL A 209	32.798	32.341	53.838	1.00	7.34	7	ATOM	1771	O	TRP A 215	28.222	38.231	45.223	1.00	6.73	8
ATOM	1719	H	ALA A 210	31.623	33.165	54.102	1.00	7.52	6	ATOM	1772	N	GLY A 216	28.714	36.209	46.000	1.00	7.00	7
ATOM	1720	CA	ALA A 210	31.558	33.591	55.584	1.00	7.62	6	ATOM	1773	CA	GLY A 216	27.936	35.541	45.004	1.00	7.12	6
ATOM	1721	CB	ALA A 210	31.490	34.416	53.261	1.00	7.58	6	ATOM	1774	C	GLY A 216	26.482	35.990	44.999	1.00	7.24	6
ATOM	1722	C	ALA A 210	30.401	34.806	52.803	1.00	7.67	7	ATOM	1775	O	GLY A 216	25.868	36.132	43.918	1.00	6.99	8
ATOM	1723	O	ALA A 211	32.614	35.095	53.060	1.00	7.90	6	ATOM	1776	N	ILE A 217	25.955	36.136	46.205	1.00	7.41	7
ATOM	1724	H	GLU A 211	32.662	36.296	52.216	1.00	9.96	6	ATOM	1777	CA	ILE A 217	24.531	36.546	46.325	1.00	7.50	6
ATOM	1725	CA	GLU A 211	34.061	36.946	52.363	1.00	9.96	6	ATOM	1778	CB	ILE A 217	24.011	36.340	47.777	1.00	8.38	6
ATOM	1726	CB	GLU A 211	34.267	38.168	51.517	1.00	13.89	6	ATOM	1779	CG2	ILE A 217	22.627	36.981	48.057	1.00	6.66	6
ATOM	1727	CG	GLU A 211	33.197	39.270	51.640	1.00	16.28	6	ATOM	1780	CG1	ILE A 217	23.923	34.851	48.131	1.00	7.56	6
ATOM	1728	CD	GLU A 211	32.845	39.772	50.515	1.00	18.47	8	ATOM	1781	CD1	ILE A 217	24.065	34.682	49.629	1.00	7.44	6
ATOM	1729	OE1	GLU A 211	32.747	39.610	52.771	1.00	13.34	8	ATOM	1782	C	ILE A 217	24.406	37.971	45.846	1.00	7.47	6
ATOM	1730	OE2	GLU A 211	32.384	36.053	50.721	1.00	7.61	6	ATOM	1783	O	ILE A 217	23.541	38.350	45.092	1.00	7.72	7
ATOM	1731	O	GLU A 211	31.758	36.890	50.060	1.00	7.56	8	ATOM	1784	N	TRP A 218	25.329	38.844	46.222	1.00	7.84	6
ATOM	1732	H	THR A 212	32.727	34.960	50.184	1.00	8.17	7	ATOM	1785	CA	TRP A 218	25.354	40.252	45.814	1.00	7.78	6
ATOM	1733	CA	THR A 212	32.727	34.572	48.781	1.00	6.96	6	ATOM	1786	CB	TRP A 218	26.556	40.953	46.464	1.00	8.24	6
ATOM	1734	CB	THR A 212	33.705	33.464	48.413	1.00	8.17	6	ATOM	1787	CG	TRP A 218	27.638	42.809	44.926	1.00	8.24	6
ATOM	1735	CG	THR A 212	35.056	33.934	48.636	1.00	9.40	8	ATOM	1788	CG2	TRP A 218	27.466	44.221	44.817	1.00	9.24	6
ATOM	1736	OG1	THR A 212	33.660	33.139	46.939	1.00	7.69	6	ATOM	1789	CE2	TRP A 218	28.514	42.168	44.041	1.00	7.35	6
ATOM	1737	CG2	THR A 212	31.276	34.155	48.564	1.00	6.87	6	ATOM	1790	CE3	TRP A 218	26.112	43.473	46.439	1.00	9.49	6
ATOM	1738	C	THR A 212	30.724	34.456	47.522	1.00	6.69	8	ATOM	1791	CD1	TRP A 218	26.535	44.509	45.737	1.00	9.30	7
ATOM	1739	O	THR A 212	30.604	33.516	49.527	1.00	6.92	7	ATOM	1792	HE1	TRP A 218	28.169	45.022	43.903	1.00	8.69	6
ATOM	1740	H	LYS A 213	29.168	33.214	49.424	1.00	7.14	6	ATOM	1793	CZ2	TRP A 218	29.215	42.962	43.149	1.00	7.92	6
ATOM	1741	CA	LYS A 213	28.634	32.331	50.553	1.00	6.97	6	ATOM	1794	CZ3	TRP A 218	29.058	44.371	43.069	1.00	8.47	6
ATOM	1742	CB	LYS A 213	29.076	30.863	50.321	1.00	9.06	6	ATOM	1795	CH2	TRP A 218	25.395	40.438	44.301	1.00	7.81	6
ATOM	1743	CG	LYS A 213	28.605	30.065	51.592	1.00	9.86	6	ATOM	1796	C	TRP A 218	24.708	41.250	43.686	1.00	7.56	8
ATOM	1744	CD	LYS A 213	29.312	28.701	51.442	1.00	10.33	6	ATOM	1797	O	TRP A 218	26.300	39.722	43.653	1.00	8.18	7
ATOM	1745	CE	LYS A 213	28.914	27.848	52.609	1.00	11.44	7	ATOM	1798	H	TYR A 219	26.537	39.709	42.203	1.00	8.37	6
ATOM	1746	HZ	LYS A 213	28.352	34.524	49.417	1.00	7.15	6	ATOM	1800	CB	TYR A 219	27.703	38.789	41.955	1.00	8.61	6
ATOM	1747	C	LYS A 213	27.462	34.755	48.620	1.00	6.94	8	ATOM	1801	CG	TYR A 219	28.243	38.670	40.554	1.00	9.11	6
ATOM	1748	O	LYS A 214	27.687	35.476	50.279	1.00	7.01	7	ATOM	1802	CD1	TYR A 219	28.615	39.784	39.810	1.00	9.59	6

ATOM	1803	CE1 TYR A 219	29.180	39.619	38.541	1.00	9.96	6	ATOM	1856	CO ASP A 226	19.357	33.821	34.254	1.00	7.73	6
ATOM	1804	CO2 TYR A 219	28.416	37.404	40.008	1.00	9.35	6	ATOM	1857	CG ASP A 226	18.559	35.071	33.990	1.00	7.95	6
ATOM	1805	CE2 TYR A 219	28.959	37.265	38.740	1.00	9.78	6	ATOM	1858	OD1 ASP A 226	17.512	35.272	34.681	1.00	10.67	8
ATOM	1806	CZ TYR A 219	29.346	38.361	38.021	1.00	10.19	6	ATOM	1859	OD2 ASP A 226	18.962	35.869	33.172	1.00	7.61	8
ATOM	1807	OH TYR A 219	29.899	38.187	36.757	1.00	11.08	8	ATOM	1860	C ASP A 226	20.796	32.668	35.806	1.00	7.95	6
ATOM	1808	C TYR A 219	25.279	39.259	41.447	1.00	8.69	6	ATOM	1861	O ASP A 226	20.213	31.578	35.837	1.00	8.41	8
ATOM	1809	O TYR A 219	24.836	39.946	40.527	1.00	8.37	8	ATOM	1862	H GLY A 227	22.107	32.836	35.852	1.00	7.65	7
ATOM	1810	H ALA A 220	24.676	38.131	41.869	1.00	9.13	7	ATOM	1863	CA GLY A 227	22.992	31.679	35.946	1.00	7.46	6
ATOM	1811	CA ALA A 220	23.427	37.644	41.267	1.00	9.77	6	ATOM	1864	C GLY A 227	24.471	32.049	35.990	1.00	7.30	6
ATOM	1812	CB ALA A 220	22.899	36.384	41.981	1.00	8.61	6	ATOM	1865	O GLY A 227	24.880	33.197	36.042	1.00	6.95	8
ATOM	1813	C ALA A 220	22.315	38.685	41.321	1.00	10.07	6	ATOM	1866	H PIE A 228	25.294	30.990	36.029	1.00	7.33	7
ATOM	1814	O ALA A 220	21.536	38.887	40.377	1.00	10.05	8	ATOM	1867	CA PIE A 228	26.742	31.170	36.146	1.00	7.35	6
ATOM	1815	H ASN A 221	22.192	39.338	42.473	1.00	10.39	7	ATOM	1868	CB PIE A 228	27.220	30.898	37.558	1.00	6.74	6
ATOM	1816	CA ASN A 221	21.200	40.374	42.757	1.00	10.66	6	ATOM	1869	CG PIE A 228	26.640	31.708	38.672	1.00	9.48	6
ATOM	1817	CB ASN A 221	21.013	40.698	44.262	1.00	13.90	6	ATOM	1870	CD1 PIE A 228	25.930	31.082	39.700	1.00	9.82	6
ATOM	1818	CG ASN A 221	20.192	39.543	44.855	1.00	18.18	6	ATOM	1871	CD2 PIE A 228	26.800	33.097	38.702	1.00	8.78	6
ATOM	1819	OD1 ASN A 221	19.371	38.852	44.227	1.00	19.46	8	ATOM	1872	CE1 PIE A 228	25.415	31.869	40.731	1.00	10.75	6
ATOM	1820	OD2 ASN A 221	20.481	39.263	46.125	1.00	19.86	7	ATOM	1873	CE2 PIE A 228	26.277	33.860	39.746	1.00	9.42	6
ATOM	1821	C ASN A 221	21.524	41.717	42.136	1.00	10.51	6	ATOM	1874	CZ PIE A 228	25.590	33.241	40.786	1.00	9.64	6
ATOM	1822	O ASN A 221	20.592	42.323	41.626	1.00	10.40	8	ATOM	1875	C PIE A 228	27.603	30.229	35.304	1.00	7.29	6
ATOM	1823	H GLU A 222	22.794	42.125	42.143	1.00	10.51	7	ATOM	1876	O PIE A 228	27.245	29.086	34.995	1.00	7.76	8
ATOM	1824	CA GLU A 222	23.160	43.432	41.552	1.00	10.18	6	ATOM	1877	H ARG A 229	28.791	30.675	34.978	1.00	6.86	7
ATOM	1825	CB GLU A 222	24.621	43.807	41.791	1.00	11.08	6	ATOM	1878	CA ARG A 229	29.818	29.927	34.305	1.00	6.75	6
ATOM	1826	CG GLU A 222	25.013	45.244	41.469	1.00	12.96	6	ATOM	1879	CB ARG A 229	30.172	30.439	32.885	1.00	6.68	6
ATOM	1827	CD GLU A 222	24.412	46.203	42.496	1.00	15.13	6	ATOM	1880	CG ARG A 229	31.309	29.551	32.327	1.00	5.59	6
ATOM	1828	OE1 GLU A 222	23.947	45.777	43.576	1.00	15.79	8	ATOM	1881	CD ARG A 229	32.646	30.283	32.584	1.00	7.41	6
ATOM	1829	OE2 GLU A 222	24.381	47.432	42.254	1.00	16.17	8	ATOM	1882	HE ARG A 229	33.701	29.623	31.828	1.00	7.61	7
ATOM	1830	C GLU A 222	22.903	43.428	40.052	1.00	9.82	6	ATOM	1883	CZ ARG A 229	34.985	29.905	31.872	1.00	8.29	6
ATOM	1831	O GLU A 222	22.470	44.444	39.507	1.00	9.72	8	ATOM	1884	HH1 ARG A 229	35.833	29.189	31.139	1.00	7.90	7
ATOM	1832	H LEU A 223	23.227	42.343	39.348	1.00	9.48	7	ATOM	1885	HH2 ARG A 229	35.388	30.913	32.626	1.00	7.66	7
ATOM	1833	CA LEU A 223	23.009	42.319	37.909	1.00	9.43	6	ATOM	1886	C ARG A 229	30.998	29.916	35.323	1.00	6.49	6
ATOM	1834	CB LEU A 223	24.300	41.715	37.281	1.00	7.13	6	ATOM	1887	O ARG A 229	31.518	30.980	35.697	1.00	6.39	8
ATOM	1835	CG LEU A 223	25.595	42.503	37.476	1.00	5.72	6	ATOM	1888	H ILE A A 230	31.427	28.711	35.760	1.00	6.19	7
ATOM	1836	CD1 LEU A 223	26.752	41.715	36.835	1.00	5.00	6	ATOM	1889	CA ILE A A 230	32.530	28.667	36.752	1.00	5.82	6
ATOM	1837	CD2 LEU A 223	25.470	43.808	36.880	1.00	5.20	6	ATOM	1890	CB ILE A A 230	32.239	27.598	37.860	1.00	6.87	6
ATOM	1838	C LEU A 223	21.794	41.550	37.456	1.00	9.44	6	ATOM	1891	CG2 ILE A A 230	33.534	27.125	38.636	1.00	5.00	6
ATOM	1839	O LEU A 223	21.561	41.335	36.280	1.00	9.57	8	ATOM	1892	CG1 ILE A A 230	31.001	28.126	38.637	1.00	6.60	6
ATOM	1840	H SER A 224	20.953	40.998	38.286	1.00	9.74	7	ATOM	1893	C ILE A A 230	30.470	27.073	39.606	1.00	11.75	6
ATOM	1841	CA SER A 224	19.825	40.156	37.925	1.00	10.06	6	ATOM	1894	O ILE A A 230	33.907	28.409	36.148	1.00	5.56	8
ATOM	1842	CB SER A 224	18.660	40.832	37.156	1.00	14.91	6	ATOM	1895	O ILE A A 230	34.225	27.368	35.555	1.00	5.42	7
ATOM	1843	OG SER A 224	18.251	41.991	37.901	1.00	19.93	8	ATOM	1896	H ASP A 231	34.758	29.428	35.555	1.00	5.02	7
ATOM	1844	C SER A 224	20.293	38.979	37.047	1.00	9.76	8	ATOM	1897	CA ASP A 231	36.086	29.322	35.714	1.00	5.00	6
ATOM	1845	O SER A 224	19.648	38.752	36.004	1.00	9.74	8	ATOM	1898	CB ASP A 231	36.693	30.746	35.684	1.00	5.00	6
ATOM	1846	H LEU A 225	21.340	38.248	37.445	1.00	9.20	7	ATOM	1899	CG ASP A 231	38.078	30.857	35.062	1.00	5.00	6
ATOM	1847	CA LEU A 225	21.770	37.113	36.651	1.00	8.94	6	ATOM	1900	OD1 ASP A 231	38.156	30.584	33.864	1.00	5.00	8
ATOM	1848	CB LEU A 225	23.164	36.688	37.088	1.00	10.36	6	ATOM	1901	OD2 ASP A 231	39.013	31.237	35.828	1.00	5.00	8
ATOM	1849	CG LEU A 225	24.297	37.738	36.958	1.00	11.62	6	ATOM	1902	C ASP A 231	37.016	28.427	36.518	1.00	5.00	6
ATOM	1850	CD1 LEU A 225	25.552	37.149	37.597	1.00	10.68	6	ATOM	1903	O ASP A 231	36.987	28.462	37.750	1.00	5.00	8
ATOM	1851	CD2 LEU A 225	24.524	38.163	35.508	1.00	10.53	6	ATOM	1904	H ALA A 232	37.861	27.681	35.819	1.00	5.00	7
ATOM	1852	C LEU A 225	20.793	35.945	36.827	1.00	8.77	6	ATOM	1905	CA ALA A 232	38.889	26.846	36.430	1.00	5.00	6
ATOM	1853	O LEU A 225	20.084	35.785	37.796	1.00	8.44	8	ATOM	1906	CB ALA A 232	39.930	27.869	36.945	1.00	6.65	6
ATOM	1854	H ASP A 226	20.734	35.084	35.804	1.00	8.55	7	ATOM	1907	C ALA A 232	38.515	25.954	37.593	1.00	5.00	6
ATOM	1855	CA ASP A 226	19.950	33.911	35.674	1.00	7.98	6	ATOM	1908	O ALA A 232	39.189	25.916	38.626	1.00	5.00	8

ATOM	1909	H	ALA A 233	37.399	25.223	37.414	1.00	5.00	7	ATOM	1962	CA	SER A 239	32.706	20.656	48.065	1.00	7.57	6
ATOM	1910	CA	ALA A 233	36.848	24.420	38.465	1.00	5.45	6	ATOM	1963	CB	SER A 239	32.940	19.984	49.417	1.00	7.79	6
ATOM	1911	CB	ALA A 233	35.529	23.866	37.899	1.00	6.05	6	ATOM	1964	OG	SER A 239	34.169	20.443	49.919	1.00	10.61	8
ATOM	1912	C	ALA A 233	37.755	23.310	38.952	1.00	6.00	6	ATOM	1965	C	SER A 239	32.410	22.159	48.249	1.00	7.33	6
ATOM	1913	O	ALA A 233	37.565	22.963	40.144	1.00	6.16	8	ATOM	1966	O	SER A 239	31.237	22.448	48.454	1.00	7.20	6
ATOM	1914	H	LYS A 234	38.683	22.764	38.169	1.00	5.81	7	ATOM	1967	N	PIE A 240	33.300	23.066	48.168	1.00	7.19	7
ATOM	1915	CA	LYS A 234	39.508	21.670	38.618	1.00	6.08	6	ATOM	1968	CA	PIE A 240	33.073	24.471	48.275	1.00	7.28	6
ATOM	1916	CB	LYS A 234	40.171	20.929	37.485	1.00	5.76	6	ATOM	1969	CB	PIE A 240	34.332	25.325	48.382	1.00	7.42	6
ATOM	1917	CG	LYS A 234	41.275	21.620	36.704	1.00	6.41	6	ATOM	1970	CG	PIE A 240	34.049	26.801	48.123	1.00	7.00	6
ATOM	1918	CD	LYS A 234	41.843	20.613	35.671	1.00	7.10	6	ATOM	1971	CD1	PIE A 240	33.390	27.560	49.085	1.00	6.31	6
ATOM	1919	CE	LYS A 234	43.118	21.208	34.994	1.00	5.42	6	ATOM	1972	CD2	PIE A 240	34.413	27.352	46.911	1.00	6.51	6
ATOM	1920	H2	LYS A 234	43.541	20.287	33.901	1.00	5.00	7	ATOM	1973	CE1	PIE A 240	33.091	28.886	48.775	1.00	7.11	6
ATOM	1921	C	LYS A 234	40.530	22.145	39.648	1.00	6.60	6	ATOM	1974	CE2	PIE A 240	34.116	28.674	46.615	1.00	5.97	6
ATOM	1922	O	LYS A 234	41.110	21.289	40.336	1.00	6.53	8	ATOM	1975	CZ	PIE A 240	33.479	29.440	47.555	1.00	5.18	6
ATOM	1923	H	HIS A 235	40.709	23.486	39.781	1.00	6.73	7	ATOM	1976	C	PIE A 240	32.259	24.900	47.044	1.00	7.56	6
ATOM	1924	CA	HIS A 235	42.497	25.195	40.296	1.00	6.75	6	ATOM	1977	O	PIE A 240	31.251	25.631	47.191	1.00	7.63	8
ATOM	1925	CB	HIS A 235	43.030	24.789	38.959	1.00	6.58	6	ATOM	1978	N	LEU A 241	32.639	24.464	45.838	1.00	7.46	7
ATOM	1926	CG	HIS A 235	42.575	25.085	37.724	1.00	7.29	6	ATOM	1979	CA	LEU A 241	31.880	24.877	44.661	1.00	7.91	6
ATOM	1927	CD2	HIS A 235	44.084	23.935	38.789	1.00	5.80	7	ATOM	1980	CB	LEU A 241	32.528	24.553	43.318	1.00	5.00	6
ATOM	1928	MD1	HIS A 235	44.290	23.756	37.502	1.00	6.22	7	ATOM	1981	CG	LEU A 241	33.814	25.279	42.944	1.00	5.00	6
ATOM	1929	CE1	HIS A 235	43.386	24.446	36.829	1.00	6.76	6	ATOM	1982	CD1	LEU A 241	34.520	24.613	41.753	1.00	5.00	6
ATOM	1930	HE2	HIS A 235	40.857	24.459	42.002	1.00	6.67	6	ATOM	1983	CD2	LEU A 241	33.548	26.754	42.654	1.00	5.00	6
ATOM	1931	C	HIS A 235	41.512	25.042	42.814	1.00	6.54	8	ATOM	1984	C	LEU A 241	30.418	24.377	44.720	1.00	8.46	6
ATOM	1932	O	HIS A 235	39.583	24.341	42.255	1.00	6.87	7	ATOM	1985	O	LEU A 241	29.483	25.127	44.303	1.00	8.61	7
ATOM	1933	H	ILE A 236	38.916	24.866	43.434	1.00	6.68	6	ATOM	1986	N	ARG A 242	30.184	23.164	45.219	1.00	8.92	6
ATOM	1934	CA	ILE A 236	37.858	25.949	43.026	1.00	5.00	6	ATOM	1987	CA	ARG A 242	28.777	22.774	45.286	1.00	8.82	6
ATOM	1935	CB	ILE A 236	37.089	26.450	44.213	1.00	5.00	6	ATOM	1988	CB	ARG A 242	28.716	21.286	45.431	1.00	10.58	6
ATOM	1936	CG2	ILE A 236	38.558	27.103	42.238	1.00	5.00	6	ATOM	1989	CG	ARG A 242	27.687	19.642	47.094	1.00	12.57	6
ATOM	1937	CG1	ILE A 236	37.601	27.999	41.485	1.00	5.00	6	ATOM	1990	CG	ARG A 242	28.192	19.629	48.476	1.00	13.52	6
ATOM	1938	C01	ILE A 236	38.228	23.724	44.193	1.00	7.20	6	ATOM	1991	NE	ARG A 242	28.955	18.913	49.256	1.00	15.26	7
ATOM	1939	C	ILE A 236	37.587	22.852	43.555	1.00	7.08	8	ATOM	1992	C2	ARG A 242	29.464	17.761	48.866	1.00	17.48	6
ATOM	1940	O	LYS A 237	38.407	23.693	45.498	1.00	7.57	7	ATOM	1993	NH1	ARG A 242	29.303	19.285	50.505	1.00	19.52	7
ATOM	1941	H	LYS A 237	37.831	22.688	46.424	1.00	7.74	6	ATOM	1994	NH2	ARG A 242	28.042	23.548	46.379	1.00	18.04	7
ATOM	1942	CA	LYS A 237	37.828	23.257	47.868	1.00	9.45	6	ATOM	1995	C	ARG A 242	26.891	23.909	46.129	1.00	8.91	6
ATOM	1943	CB	LYS A 237	37.355	22.233	48.831	1.00	12.16	6	ATOM	1996	O	ARG A 242	28.653	23.828	47.526	1.00	8.59	8
ATOM	1944	CG	LYS A 237	37.037	22.463	50.263	1.00	15.99	6	ATOM	1997	N	ASP A 243	27.964	24.591	48.533	1.00	9.47	6
ATOM	1945	CD	LYS A 237	37.992	23.114	51.189	1.00	19.56	6	ATOM	1998	CA	ASP A 243	28.812	24.581	49.811	1.00	11.98	6
ATOM	1946	CE	LYS A 237	37.579	22.767	52.623	1.00	22.41	7	ATOM	1999	CB	ASP A 243	28.766	23.183	50.417	1.00	15.20	6
ATOM	1947	H2	LYS A 237	36.425	22.314	45.956	1.00	6.92	8	ATOM	2000	CG	ASP A 243	29.580	22.982	51.372	1.00	19.21	8
ATOM	1948	O	LYS A 237	35.561	23.187	45.849	1.00	7.45	7	ATOM	2001	CD1	ASP A 243	28.049	22.251	50.036	1.00	13.33	8
ATOM	1949	O	LYS A 237	36.210	21.062	45.551	1.00	7.45	7	ATOM	2002	CD2	ASP A 243	27.798	26.049	48.117	1.00	9.53	6
ATOM	1950	H	PIE A 244	36.912	20.689	44.944	1.00	7.67	6	ATOM	2003	C	ASP A 243	26.797	26.664	48.539	1.00	9.54	8
ATOM	1951	CA	PIE A 244	34.921	19.232	44.425	1.00	8.77	6	ATOM	2004	O	ASP A 243	28.755	26.581	47.303	1.00	9.34	7
ATOM	1952	CB	PIE A 244	35.992	18.884	43.442	1.00	9.75	6	ATOM	2005	N	TRP A 244	28.622	28.005	46.908	1.00	9.20	6
ATOM	1953	CG	PIE A 244	36.688	19.851	42.716	1.00	9.45	6	ATOM	2006	CA	TRP A 244	29.862	28.511	46.195	1.00	7.34	6
ATOM	1954	CD1	PIE A 244	36.262	17.529	43.199	1.00	10.39	6	ATOM	2007	CG	TRP A 244	29.831	29.924	45.719	1.00	8.91	6
ATOM	1955	CD2	PIE A 244	37.638	19.448	41.787	1.00	9.12	6	ATOM	2008	CG	TRP A 244	29.442	30.367	44.411	1.00	9.51	6
ATOM	1956	CE1	PIE A 244	37.220	17.125	42.292	1.00	8.83	6	ATOM	2009	CD2	TRP A 244	29.589	31.773	44.384	1.00	10.54	6
ATOM	1957	CE2	PIE A 244	37.882	18.097	41.562	1.00	9.31	6	ATOM	2010	CE2	TRP A 244	29.020	29.698	43.243	1.00	10.38	6
ATOM	1958	CZ	PIE A 244	33.694	20.870	45.841	1.00	7.61	6	ATOM	2011	CE3	TRP A 244	30.168	31.065	46.419	1.00	9.07	6
ATOM	1959	C	PIE A 244	32.666	21.356	45.350	1.00	7.47	8	ATOM	2012	CD1	TRP A 244	30.036	32.191	45.638	1.00	9.59	7
ATOM	1960	O	PIE A 244	33.801	20.475	47.113	1.00	7.50	7	ATOM	2013	NE1	TRP A 244	29.289	32.524	43.219	1.00	9.81	6
ATOM	1961	H	SER A 239							ATOM	2014	C22	TRP A 244						

ATOM	2015	C23	TRP	A	244	28.727	30.446	42.096	1.00	10.45	6
ATOM	2016	CH2	TRP	A	244	28.862	31.859	42.106	1.00	9.71	6
ATOM	2017	C	TRP	A	244	27.386	28.200	46.006	1.00	9.28	6
ATOM	2018	O	TRP	A	244	26.651	29.168	46.164	1.00	8.82	8
ATOM	2019	H	VAL	A	245	27.217	27.284	45.056	1.00	9.64	7
ATOM	2020	CA	VAL	A	245	26.082	27.305	44.114	1.00	10.52	6
ATOM	2021	CB	VAL	A	245	26.108	26.185	43.039	1.00	12.05	6
ATOM	2022	CG1	VAL	A	245	24.832	26.113	42.198	1.00	13.84	6
ATOM	2023	CG2	VAL	A	245	27.262	26.450	42.081	1.00	13.35	6
ATOM	2024	C	VAL	A	245	24.722	27.203	44.853	1.00	10.63	6
ATOM	2025	O	VAL	A	245	23.758	27.906	44.590	1.00	10.02	8
ATOM	2026	H	GLH	A	246	24.745	26.269	45.790	1.00	11.30	7
ATOM	2027	CA	GLH	A	246	23.552	26.022	46.634	1.00	12.37	6
ATOM	2028	CB	GLH	A	246	23.878	24.727	47.381	1.00	18.96	6
ATOM	2029	CG	GLH	A	246	22.737	24.176	48.214	1.00	27.47	6
ATOM	2030	CD	GLH	A	246	23.367	23.366	49.350	1.00	34.63	6
ATOM	2031	OE1	GLH	A	246	22.842	23.446	50.493	1.00	37.91	8
ATOM	2032	NE2	GLH	A	246	24.476	22.642	49.028	1.00	36.61	7
ATOM	2033	C	GLH	A	246	23.153	27.225	47.485	1.00	12.39	6
ATOM	2034	O	GLH	A	246	21.970	27.561	47.531	1.00	12.46	7
ATOM	2035	H	ALA	A	247	24.083	27.968	48.099	1.00	12.46	7
ATOM	2036	CA	ALA	A	247	23.852	29.144	48.893	1.00	12.61	6
ATOM	2037	CB	ALA	A	247	25.094	29.791	49.517	1.00	12.47	6
ATOM	2038	C	ALA	A	247	23.231	30.263	48.050	1.00	12.74	6
ATOM	2039	O	ALA	A	247	22.308	30.857	48.561	1.00	12.85	8
ATOM	2040	H	VAL	A	248	23.710	30.495	46.838	1.00	12.75	7
ATOM	2041	CA	VAL	A	248	23.159	31.471	45.933	1.00	12.69	6
ATOM	2042	CB	VAL	A	248	24.009	31.688	44.684	1.00	11.87	6
ATOM	2043	CG1	VAL	A	248	23.357	32.721	43.754	1.00	12.19	6
ATOM	2044	CG2	VAL	A	248	25.400	32.171	45.014	1.00	11.42	6
ATOM	2045	C	VAL	A	248	21.748	31.040	45.537	1.00	12.91	6
ATOM	2046	O	VAL	A	248	20.866	31.889	45.506	1.00	12.81	8
ATOM	2047	H	ARG	A	249	21.483	29.791	45.237	1.00	13.31	7
ATOM	2048	CA	ARG	A	249	20.124	29.352	44.897	1.00	13.92	6
ATOM	2049	CB	ARG	A	249	20.066	27.906	44.404	1.00	11.75	6
ATOM	2050	CG	ARG	A	249	20.681	27.726	43.033	1.00	12.59	6
ATOM	2051	CD	ARG	A	249	20.814	26.274	42.576	1.00	12.82	6
ATOM	2052	HE	ARG	A	249	21.411	26.198	41.224	1.00	13.02	7
ATOM	2053	C2	ARG	A	249	22.045	25.141	40.739	1.00	11.68	7
ATOM	2054	HH1	ARG	A	249	22.150	24.041	41.476	1.00	11.68	7
ATOM	2055	HH2	ARG	A	249	19.215	29.503	46.125	1.00	14.55	6
ATOM	2056	C	ARG	A	249	22.589	25.166	39.515	1.00	15.22	7
ATOM	2057	O	ARG	A	249	19.215	29.503	46.125	1.00	14.34	8
ATOM	2058	H	GLH	A	250	18.082	29.106	47.329	1.00	15.16	7
ATOM	2059	CA	GLH	A	250	18.794	29.252	48.498	1.00	15.83	6
ATOM	2060	CB	GLH	A	250	19.437	28.816	49.790	1.00	21.15	6
ATOM	2061	CG	GLH	A	250	18.902	27.566	50.460	1.00	28.24	6
ATOM	2062	CD	GLH	A	250	20.067	26.619	50.807	1.00	32.12	6
ATOM	2063	OE1	GLH	A	250	21.116	27.047	51.333	1.00	34.30	8
ATOM	2064	NE2	GLH	A	250	19.907	25.331	50.478	1.00	32.80	7
ATOM	2065	C	GLH	A	250	18.362	30.699	48.707	1.00	15.86	6
ATOM	2066	O	GLH	A	250	17.196	31.022	48.871	1.00	15.83	8
ATOM	2067	H	ALA	A	251	19.316	31.621	48.689	1.00	15.85	7
ATOM	2068	CA	ALA	A	251	19.029	33.029	48.862	1.00	16.06	6
ATOM	2069	CB	ALA	A	251	20.374	33.774	48.984	1.00	16.48	6
ATOM	2070	C	ALA	A	251	18.276	33.749	47.765	1.00	16.26	6
ATOM	2071	O	ALA	A	251	17.596	34.738	48.088	1.00	16.47	8
ATOM	2072	H	THR	A	252	18.343	33.433	46.476	1.00	16.21	7
ATOM	2073	CA	THR	A	252	17.631	34.224	45.487	1.00	16.03	6
ATOM	2074	CB	THR	A	252	18.462	34.328	44.189	1.00	13.96	6
ATOM	2075	CG1	THR	A	252	18.697	32.968	43.824	1.00	11.77	8
ATOM	2076	CG2	THR	A	252	19.776	35.060	44.281	1.00	12.34	6
ATOM	2077	C	THR	A	252	16.292	33.577	45.170	1.00	16.40	6
ATOM	2078	O	THR	A	252	15.441	34.281	44.670	1.00	16.40	8
ATOM	2079	H	GLY	A	253	16.139	32.267	45.429	1.00	16.68	7
ATOM	2080	CA	GLY	A	253	14.955	31.502	45.148	1.00	16.75	6
ATOM	2081	C	GLY	A	253	14.963	31.170	43.660	1.00	17.06	6
ATOM	2082	O	GLY	A	253	13.985	30.602	43.167	1.00	17.16	8
ATOM	2083	N	LYS	A	254	16.018	31.475	42.888	1.00	17.07	7
ATOM	2084	CA	LYS	A	254	16.045	31.196	41.437	1.00	16.76	6
ATOM	2085	CB	LYS	A	254	16.734	32.377	40.748	1.00	18.37	6
ATOM	2086	CG	LYS	A	254	16.007	33.685	40.568	1.00	21.23	6
ATOM	2087	CD	LYS	A	254	16.884	34.884	40.536	1.00	23.96	6
ATOM	2088	CE	LYS	A	254	17.330	35.674	39.332	1.00	25.51	6
ATOM	2089	H2	LYS	A	254	18.369	36.723	39.792	1.00	27.00	7
ATOM	2090	C	LYS	A	254	16.731	29.871	41.097	1.00	16.34	6
ATOM	2091	O	LYS	A	254	17.533	29.323	41.896	1.00	16.45	8
ATOM	2092	N	GLU	A	255	16.459	29.313	39.928	1.00	15.71	7
ATOM	2093	CA	GLU	A	255	17.084	28.072	39.466	1.00	15.30	6
ATOM	2094	CB	GLU	A	255	16.504	27.668	38.102	1.00	48.71	6
ATOM	2095	CG	GLU	A	255	16.954	26.337	37.542	1.00	24.80	6
ATOM	2096	CD	GLU	A	255	16.927	26.270	36.020	1.00	29.50	6
ATOM	2097	OE1	GLU	A	255	16.003	26.965	35.393	1.00	31.45	8
ATOM	2098	OE2	GLU	A	255	17.730	25.553	35.340	1.00	31.98	8
ATOM	2099	C	GLU	A	255	18.623	28.183	39.365	1.00	14.27	6
ATOM	2100	O	GLU	A	255	19.417	27.324	39.733	1.00	14.14	8
ATOM	2101	N	MET	A	256	19.098	29.303	38.859	1.00	13.25	7
ATOM	2102	CA	MET	A	256	20.476	29.628	38.676	1.00	12.49	6
ATOM	2103	CB	MET	A	256	21.171	29.970	39.998	1.00	12.38	6
ATOM	2104	CG	MET	A	256	20.740	31.237	40.705	1.00	13.41	6
ATOM	2105	SD	MET	A	256	20.539	32.774	39.751	1.00	13.00	16
ATOM	2106	CE	MET	A	256	22.245	33.221	39.432	1.00	12.60	6
ATOM	2107	C	MET	A	256	21.209	28.486	37.966	1.00	11.87	6
ATOM	2108	O	MET	A	256	22.065	27.024	38.595	1.00	11.99	8
ATOM	2109	N	PIE	A	257	20.904	28.261	36.696	1.00	10.99	7
ATOM	2110	CA	PIE	A	257	21.612	27.238	35.914	1.00	10.24	6
ATOM	2111	CB	PIE	A	257	21.254	27.347	34.397	1.00	9.31	6
ATOM	2112	CG	PIE	A	257	22.056	26.339	33.591	1.00	9.08	6
ATOM	2113	CD1	PIE	A	257	21.634	25.032	33.491	1.00	7.86	6
ATOM	2114	CD2	PIE	A	257	23.248	26.741	32.991	1.00	8.44	6
ATOM	2115	CE1	PIE	A	257	22.425	24.132	32.769	1.00	9.31	6
ATOM	2116	CE2	PIE	A	257	24.059	25.861	32.292	1.00	9.08	6
ATOM	2117	C2	PIE	A	257	23.624	24.537	32.171	1.00	10.03	6
ATOM	2118	C	PIE	A	257	23.115	27.439	36.047	1.00	9.70	6
ATOM	2119	O	PIE	A	257	23.583	28.593	35.876	1.00	9.75	8
ATOM	2120	N	THR	A	258	23.933	26.447	36.329	1.00	9.20	7

ATOM	2121	CA	THR A 258	25.392	26.609	36.450	1.00	8.71	6
ATOM	2122	CB	THR A 258	25.824	26.583	37.938	1.00	8.83	6
ATOM	2123	OG1	THR A 258	25.203	27.678	38.617	1.00	7.38	8
ATOM	2124	CG2	THR A 258	27.337	26.720	38.142	1.00	8.42	6
ATOM	2125	C	THR A 258	26.136	25.533	35.646	1.00	8.29	6
ATOM	2126	O	THR A 258	25.764	24.341	35.606	1.00	8.22	8
ATOM	2127	N	VAL A 259	27.160	25.972	34.922	1.00	7.82	7
ATOM	2128	CA	VAL A 259	28.001	25.077	34.102	1.00	7.47	6
ATOM	2129	CB	VAL A 259	27.859	25.175	32.564	1.00	5.00	6
ATOM	2130	CG1	VAL A 259	28.101	26.589	32.036	1.00	5.00	6
ATOM	2131	CG2	VAL A 259	28.799	24.202	31.809	1.00	5.00	6
ATOM	2132	C	VAL A 259	29.428	25.381	34.552	1.00	7.58	6
ATOM	2133	O	VAL A 259	29.821	26.552	34.634	1.00	7.78	8
ATOM	2134	N	ALA A 260	30.181	24.348	34.913	1.00	7.84	7
ATOM	2135	CA	ALA A 260	31.555	24.487	35.346	1.00	8.08	6
ATOM	2136	CB	ALA A 260	31.962	23.621	36.534	1.00	7.64	6
ATOM	2137	C	ALA A 260	32.523	24.076	34.215	1.00	8.28	6
ATOM	2138	O	ALA A 260	32.266	23.091	33.536	1.00	8.26	8
ATOM	2139	N	GLU A 261	33.579	24.848	34.057	1.00	8.40	7
ATOM	2140	CA	GLU A 261	34.628	24.574	33.125	1.00	8.60	6
ATOM	2141	CB	GLU A 261	35.346	25.828	32.600	1.00	11.43	6
ATOM	2142	CG	GLU A 261	36.281	25.350	31.518	1.00	17.13	6
ATOM	2143	CG	GLU A 261	36.823	26.339	30.525	1.00	23.18	6
ATOM	2144	OE1	GLU A 261	36.068	26.970	29.694	1.00	25.81	8
ATOM	2145	OE2	GLU A 261	38.080	26.441	30.593	1.00	25.35	8
ATOM	2146	C	GLU A 261	35.644	23.659	33.847	1.00	8.48	6
ATOM	2147	O	GLU A 261	36.514	24.148	34.558	1.00	8.19	8
ATOM	2148	N	TYR A 262	35.578	22.360	33.730	1.00	8.54	7
ATOM	2149	CA	TYR A 262	36.500	21.387	34.293	1.00	8.87	6
ATOM	2150	CB	TYR A 262	35.838	20.183	34.966	1.00	8.94	6
ATOM	2151	CG	TYR A 262	36.761	19.321	35.821	1.00	9.11	6
ATOM	2152	CD1	TYR A 262	36.660	19.322	37.206	1.00	9.01	6
ATOM	2153	CE1	TYR A 262	37.509	18.576	37.984	1.00	9.15	6
ATOM	2154	CD2	TYR A 262	37.743	18.497	35.253	1.00	9.45	6
ATOM	2155	CE2	TYR A 262	38.490	17.723	36.026	1.00	9.65	6
ATOM	2156	CZ	TYR A 262	39.305	17.012	38.214	1.00	9.41	8
ATOM	2157	OH	TYR A 262	37.424	20.977	33.104	1.00	8.97	6
ATOM	2158	C	TYR A 262	37.008	20.107	32.297	1.00	9.09	8
ATOM	2159	O	TYR A 262	38.590	21.592	32.945	1.00	9.15	7
ATOM	2160	N	TRP A 263	39.403	21.292	31.774	1.00	9.76	6
ATOM	2161	CA	TRP A 263	40.183	22.560	31.346	1.00	9.45	6
ATOM	2162	CB	TRP A 263	40.638	22.366	29.917	1.00	11.66	6
ATOM	2163	CG	TRP A 263	39.892	22.703	28.733	1.00	12.75	6
ATOM	2164	CD2	TRP A 263	40.662	22.299	27.612	1.00	13.78	6
ATOM	2165	CE2	TRP A 263	38.631	23.289	28.512	1.00	12.04	6
ATOM	2166	CE3	TRP A 263	41.800	21.810	29.466	1.00	12.57	6
ATOM	2167	CD1	TRP A 263	41.820	21.731	28.078	1.00	13.80	7
ATOM	2168	HE1	TRP A 263	40.205	22.513	26.299	1.00	10.12	6
ATOM	2169	CZ2	TRP A 263	38.201	23.453	27.210	1.00	14.77	6
ATOM	2170	CZ3	TRP A 263	38.970	23.094	26.122	1.00	11.88	6
ATOM	2171	CH2	TRP A 263	40.303	20.053	31.833	1.00	10.24	6
ATOM	2172	C	TRP A 263	41.436	20.018	32.294	1.00	10.30	8
ATOM	2173	O	TRP A 263						
ATOM	2174	N	GLN A 264	39.758	18.950	31.301	1.00	10.57	7
ATOM	2175	CA	GLN A 264	40.441	17.687	31.185	1.00	10.92	6
ATOM	2176	CB	GLN A 264	40.619	16.999	32.536	1.00	14.66	6
ATOM	2177	CG	GLN A 264	41.796	16.043	32.600	1.00	18.65	6
ATOM	2178	CD	GLN A 264	41.972	15.344	33.934	1.00	22.60	6
ATOM	2179	OE1	GLN A 264	41.214	15.481	34.907	1.00	24.23	8
ATOM	2180	HE2	GLN A 264	42.996	14.478	34.047	1.00	23.90	7
ATOM	2181	C	GLN A 264	39.681	16.811	30.191	1.00	11.04	6
ATOM	2182	O	GLN A 264	38.461	16.643	30.232	1.00	10.83	8
ATOM	2183	N	ASN A 265	40.454	16.216	29.289	1.00	11.25	7
ATOM	2184	CA	ASN A 265	40.151	15.322	28.209	1.00	11.87	6
ATOM	2185	CB	ASN A 265	41.223	15.365	27.078	1.00	11.52	6
ATOM	2186	CG	ASN A 265	40.655	14.637	25.854	1.00	12.03	6
ATOM	2187	CD1	ASN A 265	39.485	14.278	25.764	1.00	11.79	8
ATOM	2188	CD2	ASN A 265	41.445	14.294	24.857	1.00	11.74	7
ATOM	2189	C	ASN A 265	40.028	13.873	28.691	1.00	12.36	6
ATOM	2190	O	ASN A 265	40.755	13.007	28.282	1.00	12.25	8
ATOM	2191	N	ASN A 266	39.116	13.676	29.634	1.00	13.06	7
ATOM	2192	CA	ASN A 266	38.844	12.428	30.337	1.00	13.75	6
ATOM	2193	CB	ASN A 266	39.910	12.362	31.416	1.00	18.58	6
ATOM	2194	CG	ASN A 266	40.150	11.016	32.031	1.00	22.56	6
ATOM	2195	CD1	ASN A 266	41.311	10.519	31.969	1.00	26.43	8
ATOM	2196	CD2	ASN A 266	39.160	10.410	32.662	1.00	21.13	7
ATOM	2197	C	ASN A 266	37.441	12.394	30.944	1.00	13.73	6
ATOM	2198	O	ASN A 266	37.161	13.123	31.927	1.00	13.68	8
ATOM	2199	N	ALA A 267	36.552	11.545	30.362	1.00	13.47	7
ATOM	2200	CA	ALA A 267	35.178	11.440	30.835	1.00	13.35	6
ATOM	2201	CB	ALA A 267	34.330	10.522	29.944	1.00	12.56	6
ATOM	2202	C	ALA A 267	35.076	10.997	32.287	1.00	13.08	6
ATOM	2203	O	ALA A 268	34.195	11.454	33.027	1.00	13.14	8
ATOM	2204	N	GLY A 268	35.918	10.106	32.733	1.00	12.97	7
ATOM	2205	CA	GLY A 268	35.973	9.564	34.083	1.00	12.93	6
ATOM	2206	C	GLY A 268	36.184	10.653	35.146	1.00	13.05	6
ATOM	2207	O	GLY A 268	35.512	10.656	36.213	1.00	13.01	8
ATOM	2208	N	LYS A 269	37.109	11.575	34.879	1.00	12.90	7
ATOM	2209	CA	LYS A 269	37.425	12.601	35.786	1.00	13.04	6
ATOM	2210	CB	LYS A 269	38.790	13.296	35.417	1.00	17.83	6
ATOM	2211	CG	LYS A 269	39.840	12.506	36.217	1.00	22.85	6
ATOM	2212	CD	LYS A 269	40.869	12.034	35.211	1.00	27.74	6
ATOM	2213	CE	LYS A 269	41.722	10.885	35.785	1.00	30.85	6
ATOM	2214	NZ	LYS A 269	42.663	10.356	34.698	1.00	32.23	7
ATOM	2215	C	LYS A 269	36.296	13.699	35.776	1.00	12.76	6
ATOM	2216	O	LYS A 269	35.918	14.230	36.828	1.00	12.65	8
ATOM	2217	N	LEU A 270	35.696	13.903	34.596	1.00	12.42	7
ATOM	2218	CA	LEU A 270	34.539	14.810	34.538	1.00	12.16	6
ATOM	2219	CB	LEU A 270	34.164	15.161	33.088	1.00	13.49	6
ATOM	2220	CG	LEU A 270	34.959	16.348	32.467	1.00	13.12	6
ATOM	2221	CD1	LEU A 270	34.614	17.623	33.197	1.00	13.42	6
ATOM	2222	CD2	LEU A 270	36.465	16.210	32.550	1.00	13.72	6
ATOM	2223	C	LEU A 270	33.412	14.169	35.315	1.00	11.76	6
ATOM	2224	O	LEU A 270	32.700	14.934	35.981	1.00	11.63	8
ATOM	2225	N	GLU A 271	33.219	12.051	35.281	1.00	11.41	7
ATOM	2226	CA	GLU A 271	32.136	12.233	36.051	1.00	11.29	6

ATOM	2227	CB	GLU A 271	32.024	10.817	35.510	1.00	16.08	6
ATOM	2228	CG	GLU A 271	31.015	10.010	36.333	1.00	23.09	6
ATOM	2229	CD	GLU A 271	30.861	8.627	35.729	1.00	27.19	6
ATOM	2230	OE1	GLU A 271	29.716	8.351	35.359	1.00	29.23	8
ATOM	2231	OE2	GLU A 271	31.830	7.845	35.526	1.00	30.01	8
ATOM	2232	C	GLU A 271	32.339	12.279	37.554	1.00	10.89	6
ATOM	2233	O	GLU A 271	31.458	12.370	38.404	1.00	10.58	8
ATOM	2234	N	ASH A 272	33.615	12.189	37.987	1.00	10.66	7
ATOM	2235	CA	ASH A 272	34.008	12.309	39.385	1.00	10.31	6
ATOM	2236	CB	ASH A 272	35.520	12.089	39.643	1.00	11.32	6
ATOM	2237	CG	ASH A 272	35.969	12.380	41.064	1.00	11.99	6
ATOM	2238	CO1	ASH A 272	35.616	11.603	41.966	1.00	11.66	8
ATOM	2239	HD2	ASH A 272	36.701	13.474	41.322	1.00	12.45	7
ATOM	2240	C	ASH A 272	33.588	13.709	39.873	1.00	9.78	6
ATOM	2241	O	ASH A 272	33.080	13.897	40.979	1.00	9.63	8
ATOM	2242	N	TIR A 273	33.777	14.748	39.063	1.00	8.45	6
ATOM	2243	CA	TIR A 273	33.349	16.104	39.486	1.00	9.06	6
ATOM	2244	CB	TIR A 273	33.908	17.179	38.558	1.00	8.65	6
ATOM	2245	CG	TIR A 273	33.509	18.626	38.903	1.00	8.44	6
ATOM	2246	CO1	TIR A 273	34.242	19.333	39.838	1.00	8.51	6
ATOM	2247	CE1	TIR A 273	33.915	20.650	40.228	1.00	8.39	6
ATOM	2248	CD2	TIR A 273	32.391	19.231	38.364	1.00	8.33	6
ATOM	2249	CE2	TIR A 273	32.015	20.523	38.695	1.00	8.60	6
ATOM	2250	CH	TIR A 273	32.827	21.214	39.625	1.00	8.94	8
ATOM	2251	O	TIR A 273	32.452	22.481	39.938	1.00	9.06	6
ATOM	2252	C	TIR A 273	31.837	16.135	39.662	1.00	8.80	8
ATOM	2253	O	TIR A 273	31.340	16.679	40.688	1.00	9.52	7
ATOM	2254	H	LEU A 274	31.061	15.569	38.736	1.00	10.16	6
ATOM	2255	CA	LEU A 274	29.590	15.550	38.849	1.00	10.22	6
ATOM	2256	CB	LEU A 274	28.901	14.856	37.646	1.00	10.21	6
ATOM	2257	CG	LEU A 274	29.158	15.528	36.280	1.00	11.67	6
ATOM	2258	CO1	LEU A 274	28.719	14.634	35.107	1.00	10.03	6
ATOM	2259	CD1	LEU A 274	28.432	16.843	36.198	1.00	10.59	6
ATOM	2260	C	LEU A 274	29.157	14.918	40.173	1.00	10.27	8
ATOM	2261	O	LEU A 274	28.353	15.463	40.920	1.00	11.45	7
ATOM	2262	N	ASH A 275	29.706	13.730	40.471	1.00	12.37	6
ATOM	2263	CA	ASH A 275	29.463	13.009	41.709	1.00	19.11	6
ATOM	2264	CB	ASH A 275	30.287	11.694	41.835	1.00	24.07	6
ATOM	2265	CG	ASH A 275	29.761	10.565	40.962	1.00	27.53	8
ATOM	2266	CO1	ASH A 275	28.743	9.915	41.314	1.00	25.40	7
ATOM	2267	HD2	ASH A 275	30.352	10.254	39.805	1.00	12.34	6
ATOM	2268	C	ASH A 275	29.820	13.870	42.924	1.00	12.19	8
ATOM	2269	O	ASH A 275	28.964	14.072	43.761	1.00	12.51	7
ATOM	2270	N	LYS A 276	31.008	14.435	43.005	1.00	12.99	6
ATOM	2271	CA	LYS A 276	31.461	15.251	44.130	1.00	12.82	6
ATOM	2272	CB	LYS A 276	32.952	15.605	44.000	1.00	13.95	6
ATOM	2273	CG	LYS A 276	33.825	14.346	44.050	1.00	14.29	6
ATOM	2274	CO	LYS A 276	33.535	13.485	45.269	1.00	13.18	6
ATOM	2275	CE	LYS A 276	34.141	12.103	45.203	1.00	13.50	7
ATOM	2276	H2	LYS A 276	35.602	12.070	44.906	1.00	13.24	6
ATOM	2277	C	LYS A 276	30.651	16.533	44.311	1.00	13.75	8
ATOM	2278	O	LYS A 276	30.650	17.117	45.412	1.00	12.99	7
ATOM	2279	H	TIR A 277	29.966	16.979	43.256	1.00	12.99	7
ATOM	2280	CA	TIR A 277	29.173	18.187	43.406	1.00	12.78	6
ATOM	2281	CB	TIR A 277	29.520	19.264	42.357	1.00	12.02	6
ATOM	2282	OG1	TIR A 277	29.323	18.649	41.065	1.00	12.30	8
ATOM	2283	CG2	TIR A 277	30.941	19.791	42.492	1.00	8.90	6
ATOM	2284	C	TIR A 277	27.701	17.794	43.416	1.00	12.70	6
ATOM	2285	O	TIR A 277	26.812	18.613	43.190	1.00	12.66	8
ATOM	2286	N	SER A 278	27.426	16.518	43.673	1.00	12.73	7
ATOM	2287	CA	SER A 278	26.069	16.047	43.729	1.00	12.83	6
ATOM	2288	CB	SER A 278	25.280	16.804	44.854	1.00	14.69	6
ATOM	2289	OG	SER A 278	25.963	16.531	46.061	1.00	18.04	8
ATOM	2290	C	SER A 278	25.283	16.294	42.474	1.00	12.85	6
ATOM	2291	O	SER A 278	24.049	16.483	42.663	1.00	13.07	8
ATOM	2292	N	PIE A 279	25.774	16.339	41.260	1.00	12.49	7
ATOM	2293	CA	PIE A 279	24.097	16.593	40.100	1.00	12.16	6
ATOM	2294	CB	PIE A 279	23.976	15.344	39.973	1.00	12.70	6
ATOM	2295	CG	PIE A 279	24.772	14.122	39.524	1.00	12.87	6
ATOM	2296	CO1	PIE A 279	25.103	13.153	40.435	1.00	13.85	6
ATOM	2297	CO2	PIE A 279	25.005	13.919	38.199	1.00	13.30	6
ATOM	2298	CE1	PIE A 279	25.903	12.038	40.045	1.00	13.14	6
ATOM	2299	CE2	PIE A 279	25.801	12.799	37.786	1.00	13.99	6
ATOM	2300	CZ	PIE A 279	26.246	11.878	38.726	1.00	13.30	6
ATOM	2301	C	PIE A 279	24.170	17.912	40.149	1.00	12.03	6
ATOM	2302	O	PIE A 279	23.185	18.072	39.417	1.00	12.57	8
ATOM	2303	N	ASN A 280	24.646	18.942	40.882	1.00	11.58	7
ATOM	2304	CA	ASN A 280	24.025	20.735	42.438	1.00	11.18	6
ATOM	2305	CB	ASN A 280	23.979	20.228	40.984	1.00	11.30	6
ATOM	2306	CG	ASN A 280	25.222	21.558	42.868	1.00	13.48	6
ATOM	2307	CO1	ASN A 280	26.142	21.809	42.087	1.00	12.89	8
ATOM	2308	HD2	ASN A 280	25.289	22.094	44.111	1.00	12.18	7
ATOM	2309	C	ASN A 280	24.422	21.247	39.927	1.00	10.94	6
ATOM	2310	O	ASN A 280	23.910	22.353	39.820	1.00	11.03	8
ATOM	2311	N	GLN A 281	25.325	20.890	39.032	1.00	10.60	7
ATOM	2312	CA	GLN A 281	25.784	21.736	37.949	1.00	10.04	6
ATOM	2313	CB	GLN A 281	26.930	22.636	38.400	1.00	9.98	6
ATOM	2314	CG	GLN A 281	20.117	21.977	39.038	1.00	9.72	6
ATOM	2315	CO	GLN A 281	29.055	22.863	39.859	1.00	9.00	6
ATOM	2316	OE1	GLN A 281	30.064	23.342	39.350	1.00	8.97	8
ATOM	2317	NE2	GLN A 281	28.835	23.085	41.151	1.00	8.05	7
ATOM	2318	C	GLN A 281	26.239	20.871	36.771	1.00	9.46	6
ATOM	2319	O	GLN A 281	26.615	19.703	36.902	1.00	9.22	8
ATOM	2320	N	SER A 282	26.224	21.522	35.616	1.00	9.14	7
ATOM	2321	CA	SER A 282	26.674	20.851	34.389	1.00	8.74	6
ATOM	2322	CB	SER A 282	25.985	21.419	33.131	1.00	7.22	6
ATOM	2323	CG	SER A 282	24.607	21.123	33.102	1.00	6.53	8
ATOM	2324	C	SER A 282	28.170	21.077	34.201	1.00	8.54	6
ATOM	2325	O	SER A 282	28.773	21.913	34.919	1.00	8.89	8
ATOM	2326	N	VAL A 283	28.777	20.420	33.240	1.00	8.11	7
ATOM	2327	CA	VAL A 283	30.154	20.596	32.841	1.00	7.98	6
ATOM	2328	CB	VAL A 283	31.137	19.443	33.210	1.00	8.54	6
ATOM	2329	CG1	VAL A 283	31.457	19.441	34.708	1.00	9.20	6
ATOM	2330	CG2	VAL A 283	30.599	18.117	32.719	1.00	7.85	6
ATOM	2331	C	VAL A 283	30.218	20.758	31.304	1.00	7.87	6
ATOM	2332	O	VAL A 283	29.342	20.265	30.572	1.00	7.75	8

ATOM	2333	N	PHE A 284	31.212	21.483	30.801	1.00	7.72	7	ATOM	2386	CO	PIE A 290	39.575	16.332	22.175	1.00	7.08	6
ATOM	2334	CA	PHE A 284	31.460	21.589	29.383	1.00	7.67	6	ATOM	2387	CG	PIE A 290	40.370	17.378	22.893	1.00	7.95	6
ATOM	2335	CB	PHE A 284	32.518	22.649	29.110	1.00	7.48	6	ATOM	2388	CD1	PIE A 290	40.054	17.819	24.152	1.00	7.13	6
ATOM	2336	CG	PHE A 284	31.953	24.040	29.240	1.00	7.61	6	ATOM	2389	CD2	PIE A 290	41.431	18.012	22.214	1.00	9.46	6
ATOM	2337	CD1	PHE A 284	32.301	24.886	30.277	1.00	6.90	6	ATOM	2390	CE1	PIE A 290	40.764	18.810	24.791	1.00	8.24	6
ATOM	2338	CD2	PHE A 284	31.062	24.475	28.252	1.00	7.80	6	ATOM	2391	CE2	PIE A 290	42.137	19.075	22.838	1.00	9.38	6
ATOM	2339	CE1	PHE A 284	31.782	26.167	30.312	1.00	8.33	6	ATOM	2392	C2	PIE A 290	41.830	19.458	24.125	1.00	9.13	6
ATOM	2340	CE2	PHE A 284	30.501	25.756	28.282	1.00	6.48	6	ATOM	2393	C	PIE A 290	38.361	15.943	19.984	1.00	8.42	6
ATOM	2341	C2	PHE A 284	30.882	26.602	29.314	1.00	7.74	6	ATOM	2394	O	PIE A 290	39.158	15.881	19.025	1.00	8.61	8
ATOM	2342	C	PHE A 284	31.997	20.212	28.924	1.00	7.86	6	ATOM	2395	N	ASN A 291	37.239	15.234	20.127	1.00	8.43	7
ATOM	2343	O	PHE A 284	32.833	19.541	29.627	1.00	7.52	8	ATOM	2396	CA	ASN A 291	36.826	14.303	19.077	1.00	8.66	6
ATOM	2344	N	ASP A 285	31.517	19.758	27.741	1.00	7.99	7	ATOM	2397	CB	ASN A 291	35.581	13.461	19.414	1.00	9.01	6
ATOM	2345	CA	ASP A 285	31.997	18.452	27.212	1.00	8.11	6	ATOM	2398	CG	ASN A 291	35.866	12.427	20.505	1.00	10.93	6
ATOM	2346	CB	ASP A 285	30.919	17.867	26.269	1.00	8.64	6	ATOM	2399	OO1	ASN A 291	37.040	12.332	20.954	1.00	10.93	8
ATOM	2347	CG	ASP A 285	31.063	16.361	26.096	1.00	9.93	6	ATOM	2400	HO2	ASN A 291	34.848	11.690	20.917	1.00	8.51	7
ATOM	2348	OO2	ASP A 285	32.173	15.774	26.289	1.00	8.07	8	ATOM	2401	O	ASN A 291	36.507	15.080	17.798	1.00	8.93	6
ATOM	2349	OO2	ASP A 285	33.339	18.591	26.496	1.00	8.25	6	ATOM	2402	O	ASN A 291	36.824	14.630	16.701	1.00	8.32	8
ATOM	2350	O	ASP A 285	30.026	15.731	25.769	1.00	9.24	8	ATOM	2403	N	LEU A 292	35.808	16.219	17.925	1.00	9.66	7
ATOM	2351	O	ASP A 285	33.394	18.729	25.236	1.00	8.58	8	ATOM	2404	CA	LEU A 292	35.459	17.043	16.777	1.00	10.78	6
ATOM	2352	N	VAL A 286	34.468	18.590	27.218	1.00	7.95	7	ATOM	2405	CB	LEU A 292	34.525	10.220	17.143	1.00	11.55	6
ATOM	2353	CA	VAL A 286	35.813	18.709	26.644	1.00	7.75	6	ATOM	2406	CG	LEU A 292	33.126	17.717	17.616	1.00	12.98	6
ATOM	2354	CB	VAL A 286	36.851	18.934	27.764	1.00	7.80	6	ATOM	2407	CD1	LEU A 292	32.406	18.847	18.358	1.00	10.98	6
ATOM	2355	CG1	VAL A 286	38.270	19.085	27.261	1.00	5.55	6	ATOM	2408	CD2	LEU A 292	32.371	17.124	16.439	1.00	11.27	6
ATOM	2356	CG2	VAL A 286	36.418	20.221	28.524	1.00	8.40	6	ATOM	2409	C	LEU A 292	36.713	17.628	16.088	1.00	11.19	6
ATOM	2357	C	VAL A 286	36.145	17.549	25.719	1.00	7.74	6	ATOM	2410	O	LEU A 292	36.821	17.685	14.878	1.00	11.27	8
ATOM	2358	O	VAL A 286	36.611	17.833	24.601	1.00	7.94	8	ATOM	2411	N	GLN A 293	37.674	18.093	16.832	1.00	12.28	7
ATOM	2359	N	PRO A 287	35.967	16.276	26.097	1.00	7.41	7	ATOM	2412	CA	GLN A 293	38.899	18.619	16.322	1.00	13.50	6
ATOM	2360	CD	PRO A 287	35.495	15.854	27.413	1.00	7.11	6	ATOM	2413	CB	GLN A 293	39.632	19.090	17.572	1.00	15.35	6
ATOM	2361	CA	PRO A 287	36.262	15.131	25.226	1.00	7.24	6	ATOM	2414	CG	GLN A 293	40.644	20.159	17.294	1.00	20.28	6
ATOM	2362	CB	PRO A 287	35.802	13.885	25.970	1.00	7.12	6	ATOM	2415	CD	GLN A 293	42.018	19.550	17.111	1.00	23.63	6
ATOM	2363	CG	PRO A 287	35.741	14.357	27.396	1.00	7.43	6	ATOM	2416	OE1	GLN A 293	42.277	18.617	17.883	1.00	27.19	8
ATOM	2364	C	PRO A 287	35.589	15.313	23.873	1.00	7.51	6	ATOM	2417	HE2	GLN A 293	42.755	20.086	16.154	1.00	25.26	7
ATOM	2365	O	PRO A 287	36.214	15.113	22.834	1.00	7.47	7	ATOM	2418	C	GLN A 293	39.771	17.574	15.581	1.00	12.47	6
ATOM	2366	N	LEU A 288	34.293	15.681	22.762	1.00	7.34	6	ATOM	2419	O	GLN A 293	40.424	17.827	14.578	1.00	12.05	8
ATOM	2367	CA	LEU A 288	33.608	15.904	22.504	1.00	7.34	6	ATOM	2420	N	ALA A 294	39.793	16.376	16.196	1.00	13.37	6
ATOM	2368	CB	LEU A 288	32.149	16.325	22.654	1.00	7.25	6	ATOM	2421	CA	ALA A 294	40.630	14.069	16.583	1.00	12.51	6
ATOM	2369	CG	LEU A 288	31.430	16.481	21.283	1.00	8.35	6	ATOM	2422	CB	ALA A 294	40.557	15.278	15.655	1.00	13.85	7
ATOM	2370	CD1	LEU A 288	31.384	15.185	20.494	1.00	8.34	6	ATOM	2423	C	ALA A 294	37.963	14.486	12.906	1.00	11.81	6
ATOM	2371	CD2	LEU A 288	30.038	16.988	21.510	1.00	5.28	6	ATOM	2424	O	ALA A 294	38.580	14.804	14.185	1.00	13.85	6
ATOM	2372	C	LEU A 288	34.329	16.998	21.722	1.00	7.39	6	ATOM	2425	CA	ALA A 295	38.447	14.351	12.963	1.00	14.11	6
ATOM	2373	O	LEU A 288	34.847	18.097	22.260	1.00	7.34	7	ATOM	2426	CA	ALA A 295	38.280	15.584	11.874	1.00	14.15	8
ATOM	2374	N	HIS A 289	35.583	19.114	21.525	1.00	7.21	6	ATOM	2427	CB	ALA A 295	38.474	15.301	10.678	1.00	14.15	8
ATOM	2375	CA	HIS A 289	36.094	20.260	22.445	1.00	5.61	6	ATOM	2428	C	ALA A 295	38.311	16.845	12.322	1.00	14.00	7
ATOM	2376	CB	HIS A 289	37.215	21.083	21.852	1.00	5.00	6	ATOM	2429	O	ALA A 295	38.562	17.954	11.422	1.00	10.42	6
ATOM	2377	CD	HIS A 289	38.548	21.040	22.012	1.00	5.00	6	ATOM	2430	N	SER A 296	38.176	19.248	12.167	1.00	10.42	6
ATOM	2378	OO1	HIS A 289	36.986	22.086	20.914	1.00	5.00	7	ATOM	2431	CA	SER A 296	39.176	19.868	12.880	1.00	8.51	8
ATOM	2379	HO1	HIS A 289	38.127	22.570	20.527	1.00	5.00	6	ATOM	2432	OG	SER A 296	40.000	17.997	10.859	1.00	14.43	6
ATOM	2380	CE1	HIS A 289	39.124	21.983	21.176	1.00	5.00	7	ATOM	2433	C	SER A 296	40.338	18.622	9.838	1.00	14.12	8
ATOM	2381	HE2	HIS A 289	36.776	18.507	20.805	1.00	7.52	6	ATOM	2434	C	SER A 296	40.902	17.322	11.540	1.00	14.82	7
ATOM	2382	C	HIS A 289	37.083	18.809	19.647	1.00	7.41	8	ATOM	2435	O	SER A 297	42.305	17.287	11.269	1.00	15.50	6
ATOM	2383	O	HIS A 289	37.518	17.654	21.545	1.00	7.75	7	ATOM	2437	CA	SER A 297	42.931	16.991	12.708	1.00	16.67	6
ATOM	2384	N	PHE A 290	38.721	16.971	21.050	1.00	8.12	6	ATOM	2438	CB	SER A 297						

ATOM	2439	OG	SER A 297	42.921	18.303	13.176	1.00	20.24	8	ATOM	2492	CA	ARG A 305	31.372	6.123	13.883	1.00	16.15	6
ATOM	2440	C	SER A 297	42.921	16.146	10.508	1.00	15.90	6	ATOM	2493	CB	ARG A 305	31.398	4.601	13.558	1.00	17.94	6
ATOM	2441	O	SER A 297	44.076	16.216	10.160	1.00	15.87	7	ATOM	2494	CG	ARG A 305	30.663	4.270	12.266	1.00	20.53	6
ATOM	2442	H	GLN A 298	42.143	15.074	10.370	1.00	16.33	8	ATOM	2495	CG	ARG A 305	30.984	3.018	11.512	1.00	21.54	6
ATOM	2443	CA	GLN A 298	42.650	13.888	9.722	1.00	16.82	6	ATOM	2496	NE	ARG A 305	32.390	2.813	11.326	1.00	23.87	7
ATOM	2444	CB	GLN A 298	42.156	12.653	10.523	1.00	18.92	6	ATOM	2497	CZ	ARG A 305	32.917	1.717	10.819	1.00	26.93	6
ATOM	2445	CG	GLN A 298	43.084	12.447	11.693	1.00	20.51	6	ATOM	2498	HH1	ARG A 305	32.145	0.716	10.412	1.00	29.01	7
ATOM	2446	CO	GLN A 298	42.613	11.548	12.798	1.00	23.02	6	ATOM	2499	HH2	ARG A 305	34.239	1.652	10.753	1.00	28.19	7
ATOM	2447	OE1	GLN A 298	42.174	10.410	12.588	1.00	24.09	8	ATOM	2500	C	ARG A 305	31.768	6.318	15.354	1.00	16.33	6
ATOM	2448	HE2	GLN A 298	42.715	12.077	14.034	1.00	23.74	7	ATOM	2501	O	ARG A 305	30.997	5.924	16.218	1.00	16.15	8
ATOM	2449	C	GLN A 298	42.319	13.823	8.245	1.00	17.02	6	ATOM	2502	H	LYS A 306	32.942	6.837	15.661	1.00	16.51	7
ATOM	2450	O	GLN A 298	42.486	12.719	7.679	1.00	17.29	6	ATOM	2503	CA	LYS A 306	33.424	7.006	17.011	1.00	17.04	6
ATOM	2451	H	GLY A 299	41.907	14.913	7.631	1.00	16.90	7	ATOM	2504	CB	LYS A 306	34.945	6.643	16.903	1.00	19.89	6
ATOM	2452	CA	GLY A 299	41.595	15.001	6.223	1.00	16.90	6	ATOM	2505	CG	LYS A 306	35.043	5.174	16.504	1.00	25.08	6
ATOM	2453	C	GLY A 299	40.763	13.864	5.685	1.00	16.77	6	ATOM	2506	CG	LYS A 306	36.487	4.726	16.705	1.00	30.20	6
ATOM	2454	O	GLY A 299	40.942	13.480	4.523	1.00	17.33	8	ATOM	2507	CE	LYS A 306	36.968	3.663	15.712	1.00	32.87	6
ATOM	2455	H	GLY A 300	39.855	13.274	6.435	1.00	16.11	7	ATOM	2508	HZ	LYS A 306	37.911	2.695	16.442	1.00	35.11	7
ATOM	2456	CA	GLY A 300	39.068	12.163	5.983	1.00	15.25	6	ATOM	2509	C	LYS A 306	33.356	8.375	17.653	1.00	17.07	6
ATOM	2457	C	GLY A 300	39.483	10.868	6.650	1.00	14.82	6	ATOM	2510	O	LYS A 306	33.967	8.639	18.692	1.00	16.98	8
ATOM	2458	O	GLY A 300	38.603	10.027	6.489	1.00	14.53	8	ATOM	2511	N	LEU A 307	32.639	9.313	17.026	1.00	17.11	7
ATOM	2459	H	GLY A 301	40.574	10.532	7.302	1.00	14.47	7	ATOM	2512	CA	LEU A 307	32.539	10.700	17.444	1.00	17.21	6
ATOM	2460	CA	GLY A 301	40.815	9.227	7.860	1.00	14.37	6	ATOM	2513	CB	LEU A 307	31.608	11.509	16.526	1.00	18.35	6
ATOM	2461	C	GLY A 301	40.234	8.948	9.225	1.00	14.36	6	ATOM	2514	CG	LEU A 307	32.192	12.263	15.348	1.00	20.88	6
ATOM	2462	O	GLY A 301	40.318	7.830	9.696	1.00	14.17	8	ATOM	2515	CD1	LEU A 307	31.055	12.963	14.582	1.00	21.03	6
ATOM	2463	N	TYR A 302	39.559	9.888	9.908	1.00	14.62	7	ATOM	2516	CD2	LEU A 307	33.273	13.283	15.684	1.00	20.35	6
ATOM	2464	CA	TYR A 302	38.973	9.650	11.220	1.00	14.57	6	ATOM	2517	C	LEU A 307	32.084	10.826	18.890	1.00	17.01	6
ATOM	2465	CB	TYR A 302	38.419	10.956	11.845	1.00	14.59	6	ATOM	2518	O	LEU A 307	32.553	11.677	19.605	1.00	17.09	8
ATOM	2466	CG	TYR A 302	37.750	10.869	13.198	1.00	14.61	6	ATOM	2519	N	LEU A 308	31.179	9.970	19.331	1.00	16.89	7
ATOM	2467	CP1	TYR A 302	38.559	10.860	14.355	1.00	14.96	6	ATOM	2520	CA	LEU A 308	30.629	9.973	20.670	1.00	16.75	6
ATOM	2468	CE1	TYR A 302	37.990	10.754	15.630	1.00	14.98	6	ATOM	2521	CB	LEU A 308	29.153	9.440	20.589	1.00	17.24	6
ATOM	2469	CD2	TYR A 302	36.380	10.751	13.400	1.00	14.40	6	ATOM	2522	CG	LEU A 308	28.116	10.476	20.136	1.00	19.15	6
ATOM	2470	CE2	TYR A 302	35.820	10.629	14.663	1.00	14.56	6	ATOM	2523	CD1	LEU A 308	26.740	9.862	19.977	1.00	18.81	6
ATOM	2471	CZ	TYR A 302	36.622	10.655	15.778	1.00	14.83	6	ATOM	2524	CD2	LEU A 308	28.015	11.605	21.063	1.00	19.79	6
ATOM	2472	OH	TYR A 302	36.157	10.564	17.049	1.00	15.01	8	ATOM	2525	C	LEU A 308	31.420	9.200	21.720	1.00	16.38	6
ATOM	2473	C	TYR A 302	37.831	8.643	11.151	1.00	14.74	6	ATOM	2526	O	LEU A 308	31.137	9.327	22.922	1.00	16.30	8
ATOM	2474	O	TYR A 302	37.073	8.682	10.170	1.00	14.62	8	ATOM	2527	N	ASN A 309	32.381	8.386	21.344	1.00	15.89	7
ATOM	2475	H	ASP A 303	37.515	7.744	12.058	1.00	14.71	7	ATOM	2528	CA	ASN A 309	33.203	7.595	22.228	1.00	15.89	6
ATOM	2476	CA	ASP A 303	36.350	6.873	11.910	1.00	14.90	6	ATOM	2529	CB	ASN A 309	34.349	6.886	21.492	1.00	21.07	6
ATOM	2477	CB	ASP A 303	36.617	5.550	12.620	1.00	16.31	6	ATOM	2530	CG	ASN A 309	33.880	5.720	20.660	1.00	26.35	6
ATOM	2478	CG	ASP A 303	35.526	4.517	12.403	1.00	17.88	6	ATOM	2531	CD1	ASN A 309	34.746	5.049	20.024	1.00	29.82	8
ATOM	2479	CD1	ASP A 303	35.893	4.796	12.005	1.00	19.55	8	ATOM	2532	CD2	ASN A 309	32.579	5.435	20.588	1.00	27.51	7
ATOM	2480	CD2	ASP A 303	35.165	7.627	12.500	1.00	14.85	6	ATOM	2533	C	ASN A 309	33.938	8.456	23.265	1.00	15.16	6
ATOM	2481	C	ASP A 303	35.013	7.729	13.714	1.00	14.59	8	ATOM	2534	O	ASN A 309	34.623	9.384	22.831	1.00	15.00	8
ATOM	2482	O	ASP A 303	34.315	8.199	11.658	1.00	14.94	7	ATOM	2535	N	GLY A 310	33.777	8.102	24.545	1.00	14.32	7
ATOM	2483	H	HET A 304	33.151	8.973	12.057	1.00	15.29	6	ATOM	2536	CA	GLY A 310	34.447	8.836	25.603	1.00	13.49	6
ATOM	2484	CA	HET A 304	32.440	9.630	10.862	1.00	14.35	6	ATOM	2537	C	GLY A 310	33.944	10.232	25.938	1.00	12.69	6
ATOM	2485	CB	HET A 304	33.307	10.718	10.201	1.00	13.91	6	ATOM	2538	O	GLY A 310	34.667	10.890	26.657	1.00	12.41	8
ATOM	2486	CG	HET A 304	33.391	12.309	11.028	1.00	14.76	16	ATOM	2539	N	THR A 311	32.784	10.615	25.413	1.00	12.19	7
ATOM	2487	SD	HET A 304	31.941	13.156	10.378	1.00	11.94	6	ATOM	2540	CA	THR A 311	32.222	11.929	25.676	1.00	11.65	6
ATOM	2488	CE	HET A 304	32.161	8.195	12.917	1.00	15.60	6	ATOM	2541	CB	THR A 311	31.462	12.519	24.452	1.00	10.26	6
ATOM	2489	C	HET A 304	31.322	8.846	13.549	1.00	15.54	8	ATOM	2542	OG1	THR A 311	30.315	11.692	24.240	1.00	10.86	8
ATOM	2490	O	HET A 304	32.251	6.872	13.019	1.00	15.77	7	ATOM	2543	CG2	THR A 311	32.307	12.571	23.191	1.00	8.42	6
ATOM	2491	H	ARG A 305							ATOM	2544	C	THR A 311	31.204	11.908	26.895	1.00	11.36	6

ATOM	2545	O	THR A 311	30.667	10.902	27.258	1.00	11.29	8
ATOM	2546	N	VAL A 312	31.198	13.075	27.545	1.00	11.20	7
ATOM	2547	CA	VAL A 312	30.313	13.282	28.693	1.00	11.29	6
ATOM	2548	CB	VAL A 312	30.567	14.637	29.407	1.00	12.62	6
ATOM	2549	CG1	VAL A 312	29.620	14.906	30.597	1.00	13.45	6
ATOM	2550	CG2	VAL A 312	31.995	14.730	29.912	1.00	10.56	6
ATOM	2551	C	VAL A 312	28.874	13.189	28.191	1.00	11.23	6
ATOM	2552	O	VAL A 312	28.053	12.526	28.793	1.00	11.01	8
ATOM	2553	N	VAL A 313	28.533	13.825	27.061	1.00	11.42	7
ATOM	2554	CA	VAL A 313	27.208	13.790	26.498	1.00	11.94	6
ATOM	2555	CB	VAL A 313	27.107	14.723	25.266	1.00	12.88	6
ATOM	2556	CG1	VAL A 313	27.604	14.175	23.942	1.00	13.11	6
ATOM	2557	CG2	VAL A 313	25.627	15.102	25.100	1.00	14.06	6
ATOM	2558	C	VAL A 313	26.655	12.380	26.219	1.00	12.21	6
ATOM	2559	O	VAL A 314	25.434	12.216	26.319	1.00	11.69	8
ATOM	2560	N	VAL A 314	27.418	11.313	25.971	1.00	12.83	7
ATOM	2561	CA	VAL A 314	26.878	9.987	25.750	1.00	13.56	6
ATOM	2562	CB	VAL A 314	27.801	9.054	24.922	1.00	13.63	6
ATOM	2563	CG	VAL A 314	29.056	9.048	25.641	1.00	15.90	8
ATOM	2564	C	VAL A 314	26.572	9.345	27.111	1.00	14.04	6
ATOM	2565	O	VAL A 314	25.730	8.445	27.105	1.00	14.28	8
ATOM	2566	N	VAL A 315	27.168	9.725	28.254	1.00	14.23	6
ATOM	2567	CA	VAL A 315	26.823	8.797	30.491	1.00	19.81	6
ATOM	2568	CB	VAL A 315	27.928	9.081	29.513	1.00	14.23	6
ATOM	2569	CG	VAL A 315	29.333	8.495	30.319	1.00	26.75	6
ATOM	2570	CD	VAL A 315	30.321	9.661	30.402	1.00	32.49	6
ATOM	2571	CE	VAL A 315	30.714	10.114	31.825	1.00	35.30	6
ATOM	2572	H2	VAL A 315	31.599	9.199	32.634	1.00	35.57	7
ATOM	2573	C	VAL A 315	25.884	9.951	30.379	1.00	13.74	6
ATOM	2574	O	VAL A 315	24.969	9.435	31.020	1.00	13.60	8
ATOM	2575	N	VAL A 316	26.108	11.257	30.397	1.00	13.12	7
ATOM	2576	CA	VAL A 316	25.314	12.197	31.179	1.00	13.02	6
ATOM	2577	CB	VAL A 316	26.202	12.791	32.327	1.00	12.69	6
ATOM	2578	CG	VAL A 316	26.550	11.718	33.313	1.00	12.94	6
ATOM	2579	CD	VAL A 316	25.796	11.024	34.166	1.00	13.25	6
ATOM	2580	CE1	VAL A 316	27.835	11.194	33.424	1.00	15.42	7
ATOM	2581	CE2	VAL A 316	27.850	10.206	34.317	1.00	14.97	6
ATOM	2582	C	VAL A 316	26.617	10.106	34.822	1.00	15.47	7
ATOM	2583	O	VAL A 316	24.809	13.360	30.325	1.00	12.64	6
ATOM	2584	N	VAL A 316	25.304	14.479	30.471	1.00	12.29	8
ATOM	2585	CA	VAL A 317	23.868	13.075	29.435	1.00	12.52	7
ATOM	2586	CB	VAL A 317	23.256	11.740	29.268	1.00	12.43	6
ATOM	2587	CG	VAL A 317	23.311	14.040	28.519	1.00	12.50	6
ATOM	2588	CD	VAL A 317	22.280	13.268	27.660	1.00	12.54	6
ATOM	2589	CE	VAL A 317	21.996	12.051	28.524	1.00	12.55	6
ATOM	2590	O	VAL A 317	22.669	15.253	29.133	1.00	12.59	6
ATOM	2591	N	VAL A 318	22.750	16.349	28.542	1.00	12.88	8
ATOM	2592	CA	VAL A 318	22.033	15.168	30.285	1.00	12.44	7
ATOM	2593	CB	VAL A 318	21.370	16.286	30.956	1.00	12.38	6
ATOM	2594	CG	VAL A 318	20.278	15.805	31.970	1.00	13.77	6
ATOM	2595	CD	VAL A 318	19.256	14.834	31.334	1.00	15.85	6
ATOM	2596	CE	VAL A 318	18.250	14.143	32.241	1.00	15.19	6
ATOM	2597	CG2	VAL A 318	18.520	15.629	30.254	1.00	17.19	6
ATOM	2598	O	VAL A 318	22.338	17.175	31.741	1.00	11.91	6
ATOM	2599	C	VAL A 318	21.929	18.174	32.286	1.00	11.51	8
ATOM	2600	N	VAL A 319	23.602	16.757	31.836	1.00	11.53	7
ATOM	2601	CA	VAL A 319	24.559	17.559	32.591	1.00	11.24	6
ATOM	2602	CB	VAL A 319	25.135	16.758	33.794	1.00	12.25	6
ATOM	2603	CG	VAL A 319	24.001	16.369	34.812	1.00	12.23	6
ATOM	2604	CD	VAL A 319	23.655	17.705	35.470	1.00	13.91	6
ATOM	2605	CE	VAL A 319	22.335	17.774	36.181	1.00	15.19	6
ATOM	2606	N2	VAL A 319	22.278	18.963	37.119	1.00	14.09	7
ATOM	2607	C	VAL A 319	25.652	18.008	31.640	1.00	10.89	6
ATOM	2608	O	VAL A 319	26.717	18.376	32.153	1.00	11.10	8
ATOM	2609	N	VAL A 320	25.462	17.969	30.320	1.00	10.24	7
ATOM	2610	CA	VAL A 320	26.564	18.409	29.483	1.00	9.74	6
ATOM	2611	CB	VAL A 320	26.825	17.443	28.311	1.00	11.44	6
ATOM	2612	CG	VAL A 320	26.960	16.158	28.752	1.00	15.00	8
ATOM	2613	C	VAL A 320	26.322	19.681	28.692	1.00	9.08	6
ATOM	2614	O	VAL A 320	25.215	19.672	28.144	1.00	9.21	8
ATOM	2615	N	VAL A 321	27.294	20.549	28.581	1.00	8.35	7
ATOM	2616	CA	VAL A 321	27.166	21.744	27.760	1.00	7.87	6
ATOM	2617	CB	VAL A 321	27.455	23.085	28.447	1.00	6.55	6
ATOM	2618	CG1	VAL A 321	27.468	24.283	27.473	1.00	5.70	6
ATOM	2619	CG2	VAL A 321	26.352	23.381	29.489	1.00	6.25	6
ATOM	2620	C	VAL A 321	28.079	21.422	26.585	1.00	7.79	6
ATOM	2621	O	VAL A 321	29.282	21.146	26.791	1.00	8.06	8
ATOM	2622	N	VAL A 322	27.497	21.399	25.396	1.00	7.46	7
ATOM	2623	CA	VAL A 322	28.302	21.038	24.183	1.00	7.12	6
ATOM	2624	CB	VAL A 322	27.504	20.146	23.199	1.00	5.50	6
ATOM	2625	CG1	VAL A 322	26.184	20.559	22.923	1.00	5.00	8
ATOM	2626	CG2	VAL A 322	27.279	18.718	23.807	1.00	6.18	6
ATOM	2627	C	VAL A 322	28.877	22.262	23.492	1.00	7.07	6
ATOM	2628	O	VAL A 322	28.206	23.319	23.510	1.00	7.34	8
ATOM	2629	N	VAL A 323	30.076	22.181	22.907	1.00	6.79	7
ATOM	2630	CA	VAL A 323	30.734	23.301	22.257	1.00	6.58	6
ATOM	2631	CB	VAL A 323	31.435	24.192	23.312	1.00	5.72	6
ATOM	2632	CG	VAL A 323	32.752	23.783	23.849	1.00	5.21	6
ATOM	2633	CD1	VAL A 323	33.918	24.279	23.270	1.00	6.61	6
ATOM	2634	CD2	VAL A 323	32.864	22.861	24.884	1.00	6.77	6
ATOM	2635	CE1	VAL A 323	35.167	23.880	23.764	1.00	7.34	6
ATOM	2636	CE2	VAL A 323	34.105	22.368	25.363	1.00	6.08	6
ATOM	2637	C2	VAL A 323	35.238	22.944	24.795	1.00	6.00	6
ATOM	2638	C	VAL A 323	31.727	22.855	21.184	1.00	6.75	6
ATOM	2639	O	VAL A 324	32.313	21.743	21.207	1.00	6.74	8
ATOM	2640	N	VAL A 324	31.917	23.744	20.208	1.00	6.84	7
ATOM	2641	CA	VAL A 324	32.846	23.539	19.087	1.00	6.92	6
ATOM	2642	CB	VAL A 324	32.248	24.084	17.759	1.00	6.12	6
ATOM	2643	CG1	VAL A 324	33.175	23.923	16.595	1.00	5.00	6
ATOM	2644	CG2	VAL A 324	30.945	23.335	17.428	1.00	5.00	6
ATOM	2645	C	VAL A 324	34.230	24.137	19.434	1.00	7.23	6
ATOM	2646	O	VAL A 324	35.247	23.410	19.508	1.00	6.91	8
ATOM	2647	N	VAL A 325	34.276	25.479	19.678	1.00	7.39	7
ATOM	2648	CA	VAL A 325	35.469	26.189	20.078	1.00	7.78	6
ATOM	2649	CB	VAL A 325	36.180	26.898	18.918	1.00	8.62	6
ATOM	2650	CG	VAL A 325	37.157	25.954	18.192	1.00	8.81	6

ATOM	2651	001 ASP A 325	38.076	25.409	18.839	1.00	7.66	8
ATOM	2652	002 ASP A 325	37.027	25.682	16.964	1.00	9.34	8
ATOM	2653	C ASP A 325	35.117	27.261	21.116	1.00	8.18	6
ATOM	2654	O ASP A 325	33.960	27.635	21.254	1.00	8.16	8
ATOM	2655	H ASH A 326	36.108	27.788	21.826	1.00	8.35	7
ATOM	2656	CA ASH A 326	35.925	28.845	22.813	1.00	8.28	6
ATOM	2657	CB ASH A 326	35.487	28.329	24.160	1.00	9.54	6
ATOM	2658	CG ASH A 326	36.502	27.485	24.902	1.00	11.91	6
ATOM	2659	001 ASH A 326	37.701	27.415	24.622	1.00	12.52	8
ATOM	2660	002 ASH A 326	36.121	26.782	23.965	1.00	11.95	7
ATOM	2661	C ASH A 326	37.212	29.685	22.871	1.00	8.44	6
ATOM	2662	O ASH A 326	38.140	29.601	22.053	1.00	7.98	8
ATOM	2663	H HIS A 327	37.266	30.626	23.836	1.00	8.65	7
ATOM	2664	CA HIS A 327	38.367	31.562	23.994	1.00	9.17	6
ATOM	2665	CB HIS A 327	37.976	32.718	24.999	1.00	8.48	6
ATOM	2666	CG HIS A 327	37.800	32.154	26.392	1.00	7.81	6
ATOM	2667	002 HIS A 327	38.481	32.357	27.535	1.00	7.34	6
ATOM	2668	001 HIS A 327	36.785	31.222	26.672	1.00	8.46	7
ATOM	2669	CE1 HIS A 327	36.886	30.856	27.951	1.00	7.98	6
ATOM	2670	HE2 HIS A 327	37.883	31.538	28.493	1.00	8.30	7
ATOM	2671	C HIS A 327	39.664	30.866	24.404	1.00	9.58	6
ATOM	2672	O HIS A 327	40.718	31.444	24.169	1.00	9.63	8
ATOM	2673	H ASP A 328	39.645	29.653	24.928	1.00	10.01	7
ATOM	2674	CA ASP A 328	40.783	28.869	25.312	1.00	10.53	6
ATOM	2675	CB ASP A 328	40.422	27.735	26.312	1.00	14.56	6
ATOM	2676	CG ASP A 328	39.676	27.936	27.629	1.00	18.50	6
ATOM	2677	001 ASP A 328	40.162	28.843	28.385	1.00	17.22	8
ATOM	2678	002 ASP A 328	38.615	27.265	28.055	1.00	18.97	8
ATOM	2679	C ASP A 328	41.385	28.188	24.074	1.00	10.65	6
ATOM	2680	O ASP A 328	42.607	28.041	23.933	1.00	10.58	8
ATOM	2681	H THR A 329	40.518	27.688	23.167	1.00	10.47	7
ATOM	2682	CA THR A 329	40.946	26.880	22.028	1.00	10.37	6
ATOM	2683	CB THR A 329	39.933	25.709	21.777	1.00	10.26	6
ATOM	2684	CG THR A 329	38.709	26.293	21.286	1.00	9.63	8
ATOM	2685	002 THR A 329	39.596	24.873	23.020	1.00	9.29	6
ATOM	2686	C THR A 329	41.142	27.596	20.702	1.00	10.77	7
ATOM	2687	O THR A 329	41.563	26.999	19.704	1.00	9.94	8
ATOM	2688	H GLN A 330	40.827	28.878	20.679	1.00	10.36	6
ATOM	2689	CA GLN A 330	40.985	29.688	19.441	1.00	9.13	6
ATOM	2690	CB GLN A 330	40.182	30.988	19.518	1.00	11.30	6
ATOM	2691	CG GLN A 330	40.749	31.987	20.543	1.00	8.40	6
ATOM	2692	001 GLN A 330	40.003	33.322	20.559	1.00	8.44	6
ATOM	2693	002 GLN A 330	39.089	33.499	21.393	1.00	7.21	8
ATOM	2694	HE2 GLN A 330	40.432	34.237	19.660	1.00	7.16	7
ATOM	2695	C GLN A 330	42.486	29.890	19.211	1.00	11.99	6
ATOM	2696	O GLN A 330	43.345	29.690	20.092	1.00	11.70	8
ATOM	2697	H PRO A 331	42.793	30.208	17.963	1.00	12.80	7
ATOM	2698	CA PRO A 331	41.806	30.403	16.873	1.00	12.95	6
ATOM	2699	CB PRO A 331	44.119	30.424	17.447	1.00	13.52	6
ATOM	2700	CG PRO A 331	43.974	30.918	15.966	1.00	13.53	6
ATOM	2701	C PRO A 331	42.608	30.336	15.583	1.00	13.10	6
ATOM	2702	CG PRO A 331	44.899	31.372	18.320	1.00	14.55	6
ATOM	2703	O PRO A 331	44.496	32.463	18.767	1.00	14.46	8
ATOM	2704	H GLY A 332	46.122	30.893	18.593	1.00	15.77	7
ATOM	2705	CA GLY A 332	47.087	31.624	19.404	1.00	17.06	6
ATOM	2706	C GLY A 332	46.881	31.463	20.896	1.00	18.22	6
ATOM	2707	O GLY A 332	47.755	31.915	21.633	1.00	18.26	8
ATOM	2708	H GLN A 333	45.817	30.862	21.429	1.00	19.06	7
ATOM	2709	CA GLN A 333	45.678	30.778	22.875	1.00	19.88	6
ATOM	2710	CB GLN A 333	44.181	30.838	23.241	1.00	19.70	6
ATOM	2711	CG GLN A 333	43.711	32.283	23.072	1.00	20.78	6
ATOM	2712	CD GLN A 333	44.572	33.254	23.876	1.00	23.47	6
ATOM	2713	OE1 GLN A 333	45.181	34.191	23.315	1.00	26.12	8
ATOM	2714	HE2 GLN A 333	44.705	33.056	25.175	1.00	22.30	7
ATOM	2715	C GLN A 333	46.462	29.622	23.446	1.00	20.87	6
ATOM	2716	O GLN A 333	47.167	28.850	22.773	1.00	20.84	8
ATOM	2717	H SER A 334	46.339	29.555	24.795	1.00	21.65	7
ATOM	2718	CA SER A 334	47.083	28.519	25.552	1.00	22.42	6
ATOM	2719	CB SER A 334	46.792	28.705	27.067	1.00	26.55	6
ATOM	2720	CG SER A 334	45.405	29.089	27.235	1.00	30.85	8
ATOM	2721	C SER A 334	46.790	27.074	25.194	1.00	22.23	6
ATOM	2722	O SER A 334	47.687	26.293	24.929	1.00	22.55	8
ATOM	2723	N LEU A 335	45.506	26.728	25.170	1.00	21.74	7
ATOM	2724	CA LEU A 335	44.958	25.411	24.863	1.00	20.75	6
ATOM	2725	CB LEU A 335	43.814	25.183	25.883	1.00	22.84	6
ATOM	2726	CG LEU A 335	44.252	25.266	27.365	1.00	23.70	6
ATOM	2727	CD1 LEU A 335	43.065	25.292	28.305	1.00	23.07	6
ATOM	2728	CD2 LEU A 335	45.184	24.089	27.673	1.00	24.51	6
ATOM	2729	C LEU A 335	44.460	25.313	23.427	1.00	19.68	6
ATOM	2730	O LEU A 335	43.491	24.609	23.136	1.00	19.77	8
ATOM	2731	H GLU A 336	45.111	26.053	22.536	1.00	18.47	7
ATOM	2732	CA GLU A 336	44.766	26.089	21.149	1.00	17.45	6
ATOM	2733	CB GLU A 336	45.908	26.773	20.387	1.00	19.49	6
ATOM	2734	CG GLU A 336	45.655	26.544	18.905	1.00	22.99	6
ATOM	2735	CD GLU A 336	46.508	27.440	18.036	1.00	26.38	6
ATOM	2736	OE1 GLU A 336	47.378	28.166	18.504	1.00	26.94	8
ATOM	2737	OE2 GLU A 336	46.276	27.487	16.805	1.00	28.18	8
ATOM	2738	C GLU A 336	44.504	24.698	20.571	1.00	16.40	6
ATOM	2739	O GLU A 336	45.349	23.802	20.647	1.00	16.09	8
ATOM	2740	H SER A 337	43.338	24.527	19.954	1.00	15.33	7
ATOM	2741	CA SER A 337	43.005	23.217	19.393	1.00	14.23	6
ATOM	2742	CB SER A 337	42.891	22.175	20.487	1.00	13.48	6
ATOM	2743	CG SER A 337	41.855	22.515	21.439	1.00	13.96	8
ATOM	2744	C SER A 337	41.679	23.436	18.665	1.00	13.82	6
ATOM	2745	O SER A 337	40.615	22.864	18.896	1.00	13.37	8
ATOM	2746	H THR A 338	41.878	24.333	17.679	1.00	13.53	7
ATOM	2747	CA THR A 338	40.800	24.801	16.837	1.00	13.46	6
ATOM	2748	CB THR A 338	41.340	26.036	16.033	1.00	13.02	6
ATOM	2749	CG1 THR A 338	41.955	26.893	17.006	1.00	14.55	8
ATOM	2750	CG2 THR A 338	40.259	26.794	15.338	1.00	12.29	6
ATOM	2751	C THR A 338	40.216	23.770	15.877	1.00	13.20	6
ATOM	2752	O THR A 338	40.980	23.008	15.281	1.00	13.26	8
ATOM	2753	H VAL A 339	38.905	23.766	15.743	1.00	12.73	7
ATOM	2754	CA VAL A 339	38.270	22.857	14.783	1.00	12.66	6
ATOM	2755	CB VAL A 339	36.803	22.594	15.154	1.00	11.55	6
ATOM	2756	CG1 VAL A 339	36.030	21.874	14.057	1.00	9.87	6

ATOM	2757	CG2	VAL	A	339	36.745	21.811	16.483	1.00	9.86	6
ATOM	2758	C	VAL	A	339	38.513	23.484	13.385	1.00	12.57	6
ATOM	2759	O	VAL	A	339	38.271	24.688	13.279	1.00	12.26	8
ATOM	2760	H	GLN	A	340	39.016	22.686	12.404	1.00	12.55	7
ATOM	2761	CA	GLN	A	340	39.280	23.302	11.088	1.00	12.55	6
ATOM	2762	CB	GLN	A	340	39.975	22.357	10.097	1.00	11.11	6
ATOM	2763	CG	GLN	A	340	41.372	21.974	10.559	1.00	11.55	6
ATOM	2764	CH	GLN	A	340	42.073	21.105	9.513	1.00	14.34	6
ATOM	2765	OE1	GLN	A	340	41.594	20.802	8.384	1.00	15.11	8
ATOM	2766	ME2	GLN	A	340	43.272	20.743	9.959	1.00	12.61	7
ATOM	2767	C	GLN	A	340	38.009	23.900	10.468	1.00	12.34	6
ATOM	2768	O	GLN	A	340	36.930	23.331	10.565	1.00	12.28	8
ATOM	2769	H	THR	A	341	38.147	25.042	9.779	1.00	12.25	7
ATOM	2770	CA	THR	A	341	37.024	25.755	9.200	1.00	12.38	6
ATOM	2771	CB	THR	A	341	37.514	26.993	8.393	1.00	15.06	6
ATOM	2772	CG	THR	A	341	38.100	27.874	9.353	1.00	16.92	8
ATOM	2773	CH	THR	A	341	36.347	27.684	7.716	1.00	14.77	6
ATOM	2774	C	THR	A	341	36.124	24.916	8.332	1.00	12.08	6
ATOM	2775	O	THR	A	341	34.910	25.018	8.411	1.00	12.16	8
ATOM	2776	H	TRP	A	342	36.698	24.095	7.465	1.00	11.85	7
ATOM	2777	CA	TRP	A	342	35.902	23.225	6.585	1.00	11.19	6
ATOM	2778	CB	TRP	A	342	36.871	22.438	5.673	1.00	10.89	6
ATOM	2779	CG	TRP	A	342	37.568	21.288	6.392	1.00	9.86	6
ATOM	2780	CH	TRP	A	342	37.073	19.949	6.491	1.00	9.37	6
ATOM	2781	CE2	TRP	A	342	37.988	19.219	7.276	1.00	9.97	6
ATOM	2782	CE3	TRP	A	342	35.916	19.290	5.991	1.00	10.12	6
ATOM	2783	CE1	TRP	A	342	38.756	21.330	7.062	1.00	10.06	6
ATOM	2784	ME1	TRP	A	342	39.027	20.080	7.592	1.00	11.11	7
ATOM	2785	C22	TRP	A	342	37.809	17.853	7.527	1.00	10.50	6
ATOM	2786	C23	TRP	A	342	35.700	17.950	6.293	1.00	9.23	6
ATOM	2787	CH2	TRP	A	342	36.654	17.222	7.050	1.00	10.34	6
ATOM	2788	C	TRP	A	342	34.968	22.340	7.391	1.00	10.76	6
ATOM	2789	O	TRP	A	342	33.837	22.038	6.990	1.00	10.60	8
ATOM	2790	H	PHE	A	343	35.375	21.846	8.577	1.00	10.45	7
ATOM	2791	CA	PHE	A	343	34.544	20.979	9.389	1.00	9.81	6
ATOM	2792	CB	PHE	A	343	35.520	20.088	10.193	1.00	10.59	6
ATOM	2793	CG	PHE	A	343	34.841	18.880	10.796	1.00	9.94	6
ATOM	2794	CH	PHE	A	343	34.561	17.786	9.989	1.00	9.97	6
ATOM	2795	CE2	PHE	A	343	34.466	18.875	12.117	1.00	9.30	6
ATOM	2796	CE1	PHE	A	343	33.947	16.653	10.504	1.00	9.66	6
ATOM	2797	CE2	PHE	A	343	33.842	17.747	12.659	1.00	10.16	6
ATOM	2798	C2	PHE	A	343	33.592	16.637	11.845	1.00	10.55	6
ATOM	2799	C	PHE	A	343	33.621	21.720	10.332	1.00	9.65	6
ATOM	2800	O	PHE	A	344	32.649	21.140	10.826	1.00	9.50	8
ATOM	2801	H	LYS	A	344	33.897	23.010	10.569	1.00	9.52	7
ATOM	2802	CA	LYS	A	344	33.084	23.775	11.536	1.00	9.73	6
ATOM	2803	CB	LYS	A	344	33.689	25.209	11.614	1.00	11.03	6
ATOM	2804	CG	LYS	A	344	33.193	25.978	12.846	1.00	11.47	6
ATOM	2805	CD	LYS	A	344	34.235	26.954	13.366	1.00	10.60	6
ATOM	2806	CE	LYS	A	344	35.068	26.281	14.470	1.00	9.19	6
ATOM	2807	ME	LYS	A	344	36.098	27.262	14.962	1.00	7.52	7
ATOM	2808	C	LYS	A	344	31.573	23.696	11.384	1.00	9.62	6
ATOM	2809	O	LYS	A	344	30.838	23.428	12.371	1.00	9.63	8
ATOM	2810	N	PRO	A	345	30.989	23.886	10.213	1.00	9.37	7
ATOM	2811	CD	PRO	A	345	31.697	24.236	8.991	1.00	9.33	6
ATOM	2812	CA	PRO	A	345	29.559	23.779	10.018	1.00	9.01	6
ATOM	2813	CB	PRO	A	345	29.285	24.245	8.592	1.00	9.17	6
ATOM	2814	CG	PRO	A	345	30.576	25.000	8.288	1.00	9.42	6
ATOM	2815	C	PRO	A	345	29.077	22.331	10.309	1.00	8.68	6
ATOM	2816	O	PRO	A	345	27.992	22.162	10.862	1.00	8.28	8
ATOM	2817	N	LEU	A	346	29.863	21.274	9.998	1.00	8.29	7
ATOM	2818	CA	LEU	A	346	29.491	19.890	10.274	1.00	7.82	6
ATOM	2819	CB	LEU	A	346	30.443	18.876	9.664	1.00	7.71	6
ATOM	2820	CG	LEU	A	346	30.608	18.730	8.147	1.00	9.48	6
ATOM	2821	CD1	LEU	A	346	30.910	20.053	7.472	1.00	6.38	6
ATOM	2822	CD2	LEU	A	346	31.710	17.710	7.794	1.00	9.58	6
ATOM	2823	C	LEU	A	346	29.426	19.714	11.796	1.00	7.55	6
ATOM	2824	O	LEU	A	346	28.510	19.084	12.262	1.00	7.43	8
ATOM	2825	N	ALA	A	347	30.320	20.297	12.583	1.00	7.30	7
ATOM	2826	CA	ALA	A	347	30.425	20.274	14.019	1.00	7.11	6
ATOM	2827	CB	ALA	A	347	31.740	20.902	14.501	1.00	7.21	6
ATOM	2828	C	ALA	A	347	29.264	21.031	14.671	1.00	7.06	6
ATOM	2829	O	ALA	A	347	28.712	20.558	15.670	1.00	7.03	8
ATOM	2830	H	TYR	A	348	28.827	22.160	14.103	1.00	7.17	7
ATOM	2831	CA	TYR	A	348	27.673	22.854	14.693	1.00	7.17	6
ATOM	2832	CB	TYR	A	348	27.650	24.299	14.175	1.00	7.45	6
ATOM	2833	CG	TYR	A	348	28.510	25.236	15.008	1.00	7.77	6
ATOM	2834	CH	TYR	A	348	29.718	25.772	14.609	1.00	7.85	6
ATOM	2835	CE1	TYR	A	348	30.416	26.670	15.415	1.00	7.87	6
ATOM	2836	CE2	TYR	A	348	28.035	25.569	16.285	1.00	7.82	6
ATOM	2837	C2	TYR	A	348	28.731	26.430	17.105	1.00	7.89	6
ATOM	2838	OH	TYR	A	348	29.917	26.984	16.682	1.00	7.94	6
ATOM	2840	C	TYR	A	348	30.609	27.789	17.576	1.00	7.87	8
ATOM	2841	O	TYR	A	348	26.404	22.081	14.387	1.00	7.12	6
ATOM	2842	H	ALA	A	349	25.461	22.029	15.193	1.00	7.05	8
ATOM	2843	CA	ALA	A	349	26.328	21.385	13.223	1.00	6.87	7
ATOM	2844	CB	ALA	A	349	25.127	20.607	12.939	1.00	6.67	6
ATOM	2845	C	ALA	A	349	25.131	20.070	11.515	1.00	6.51	6
ATOM	2846	O	ALA	A	349	25.054	19.497	13.978	1.00	6.62	6
ATOM	2847	N	PHE	A	350	23.995	19.114	14.487	1.00	6.43	8
ATOM	2848	CA	PHE	A	350	26.237	18.899	14.250	1.00	6.67	7
ATOM	2849	CB	PHE	A	350	26.268	17.814	15.220	1.00	6.81	6
ATOM	2850	CG	PHE	A	350	27.701	17.250	15.304	1.00	6.91	6
ATOM	2851	CD1	PHE	A	350	27.746	15.996	16.137	1.00	9.15	6
ATOM	2852	CD2	PHE	A	350	27.494	14.763	15.559	1.00	8.95	6
ATOM	2853	CE1	PHE	A	350	28.009	16.069	17.510	1.00	11.23	6
ATOM	2854	CE2	PHE	A	350	27.551	13.618	16.317	1.00	10.89	6
ATOM	2855	CZ	PHE	A	350	28.044	14.894	18.273	1.00	11.66	6
ATOM	2856	C	PHE	A	350	27.847	13.657	17.687	1.00	10.74	6
ATOM	2857	O	PHE	A	350	25.768	18.242	16.605	1.00	6.90	6
ATOM	2858	H	ILE	A	351	24.978	17.547	17.275	1.00	6.86	8
ATOM	2859	CA	ILE	A	351	26.217	19.408	17.102	1.00	7.14	7
ATOM	2860	CB	ILE	A	351	25.736	19.797	18.437	1.00	7.28	6
ATOM	2861	CG2	ILE	A	351	26.767	20.663	19.194	1.00	6.43	6
ATOM	2862	GG1	ILE	A	351	28.084	19.924	19.275	1.00	6.52	6
ATOM						26.943	22.024	18.556	1.00	6.43	6

ATOM	2863	CD1 ILE A 351	27.589	22.986	19.575	1.00	5.33	6	ATOM	2916	CE1 TYR A 358	21.449	26.080	26.747	1.00	9.42	6
ATOM	2864	C ILE A 351	24.372	20.509	18.459	1.00	7.26	6	ATOM	2917	CD2 TYR A 358	22.294	24.466	28.799	1.00	9.67	6
ATOM	2865	O ILE A 351	23.668	20.349	19.498	1.00	7.46	8	ATOM	2918	CE2 TYR A 358	21.900	25.783	29.085	1.00	9.55	6
ATOM	2866	H LEU A 352	23.960	21.213	17.423	1.00	7.13	7	ATOM	2919	CZ TYR A 358	21.466	26.587	28.050	1.00	9.41	6
ATOM	2867	CA LEU A 352	22.678	21.931	17.500	1.00	7.51	6	ATOM	2920	OH TYR A 358	21.076	27.879	28.304	1.00	8.90	8
ATOM	2868	CB LEU A 352	22.778	23.170	16.614	1.00	6.11	6	ATOM	2921	C TYR A 358	24.062	22.642	25.113	1.00	9.49	6
ATOM	2869	CG LEU A 352	23.789	24.248	17.000	1.00	7.70	6	ATOM	2922	O TYR A 358	25.195	22.737	25.552	1.00	9.20	8
ATOM	2870	CD1 LEU A 352	23.973	25.292	15.878	1.00	6.26	6	ATOM	2923	N PRO A 359	23.809	22.981	23.858	1.00	9.59	7
ATOM	2871	CD2 LEU A 352	23.307	24.932	18.273	1.00	6.10	6	ATOM	2924	CO PRO A 359	22.503	22.784	23.206	1.00	9.74	6
ATOM	2872	C LEU A 352	21.377	21.209	17.097	1.00	7.69	6	ATOM	2925	CA PRO A 359	24.786	23.481	22.907	1.00	9.51	6
ATOM	2873	O LEU A 352	20.314	21.664	17.512	1.00	7.18	8	ATOM	2926	CB PRO A 359	24.249	23.201	21.495	1.00	9.51	6
ATOM	2874	H THR A 353	21.530	20.143	16.291	1.00	8.22	7	ATOM	2927	CG PRO A 359	22.763	23.211	21.778	1.00	9.71	6
ATOM	2875	CA THR A 353	20.394	19.372	15.781	1.00	9.02	6	ATOM	2928	C PRO A 359	25.173	24.945	23.045	1.00	9.55	6
ATOM	2876	CB THR A 353	20.420	19.145	14.234	1.00	9.08	6	ATOM	2929	O PRO A 359	24.319	25.756	23.334	1.00	9.40	8
ATOM	2877	OG1 THR A 353	21.434	18.262	13.784	1.00	8.55	8	ATOM	2930	N GLN A 360	26.454	25.242	22.837	1.00	9.58	7
ATOM	2878	CG2 THR A 353	20.559	20.504	13.545	1.00	9.72	6	ATOM	2931	CA GLN A 360	26.970	26.588	22.963	1.00	9.76	6
ATOM	2879	C THR A 353	20.161	18.030	16.481	1.00	9.71	6	ATOM	2932	CB GLN A 360	28.115	26.660	24.024	1.00	11.01	6
ATOM	2880	O THR A 353	19.066	17.453	16.250	1.00	10.05	7	ATOM	2933	CG GLN A 360	28.777	28.065	24.057	1.00	13.99	6
ATOM	2881	H ARG A 354	21.086	17.601	17.369	1.00	10.58	6	ATOM	2934	CO GLN A 360	30.282	28.033	24.332	1.00	15.99	6
ATOM	2882	CA ARG A 354	22.883	16.330	18.085	1.00	10.58	6	ATOM	2935	OE1 GLN A 360	30.427	27.709	25.524	1.00	14.42	8
ATOM	2883	CB ARG A 354	22.258	15.688	18.208	1.00	9.90	6	ATOM	2936	NE2 GLN A 360	31.291	28.336	23.425	1.00	15.78	7
ATOM	2884	CG ARG A 354	22.706	15.117	16.879	1.00	8.76	6	ATOM	2937	C GLN A 360	27.481	27.096	21.610	1.00	9.39	6
ATOM	2885	CD ARG A 354	24.107	14.517	17.011	1.00	9.60	6	ATOM	2938	O GLN A 360	28.228	26.305	21.007	1.00	9.32	8
ATOM	2886	HE ARG A 354	24.016	13.348	17.864	1.00	8.67	7	ATOM	2939	N VAL A 361	27.111	28.317	21.278	1.00	9.24	7
ATOM	2887	CZ ARG A 354	23.434	12.222	17.541	1.00	9.03	6	ATOM	2940	CA VAL A 361	27.586	28.925	20.022	1.00	9.26	6
ATOM	2888	HH1 ARG A 354	23.392	11.309	18.513	1.00	10.30	7	ATOM	2941	CB VAL A 361	26.532	29.709	19.230	1.00	10.17	6
ATOM	2889	HH2 ARG A 354	22.866	11.890	16.408	1.00	8.32	7	ATOM	2942	CG1 VAL A 361	27.159	30.437	18.039	1.00	9.02	6
ATOM	2890	C ARG A 354	20.103	16.563	19.378	1.00	11.10	6	ATOM	2943	CG2 VAL A 361	25.394	28.761	18.785	1.00	9.34	6
ATOM	2891	O ARG A 354	20.157	17.713	19.854	1.00	11.27	8	ATOM	2944	C VAL A 361	28.739	29.880	20.354	1.00	9.12	6
ATOM	2892	H GLU A 355	19.325	15.618	19.921	1.00	11.22	7	ATOM	2945	O VAL A 361	28.526	30.595	21.350	1.00	9.34	8
ATOM	2893	CA GLU A 355	18.560	15.818	21.130	1.00	11.61	6	ATOM	2946	N PHE A 362	29.879	29.887	19.703	1.00	8.60	7
ATOM	2894	CB GLU A 355	17.527	14.661	21.351	1.00	14.92	6	ATOM	2947	CA PHE A 362	30.985	30.768	20.056	1.00	8.23	6
ATOM	2895	CG GLU A 355	18.229	13.320	21.567	1.00	17.30	6	ATOM	2948	CB PHE A 362	32.308	30.060	19.804	1.00	5.00	6
ATOM	2896	CD GLU A 355	17.370	12.087	21.646	1.00	19.96	6	ATOM	2949	CG PHE A 362	33.606	30.771	20.058	1.00	6.40	6
ATOM	2897	OE1 GLU A 355	17.828	10.936	21.901	1.00	21.87	8	ATOM	2950	CO1 PHE A 362	33.778	31.642	21.142	1.00	5.78	6
ATOM	2898	OE2 GLU A 355	16.145	12.138	21.394	1.00	22.12	8	ATOM	2951	CD2 PHE A 362	34.710	30.563	19.197	1.00	5.00	6
ATOM	2899	C GLU A 355	19.317	15.898	22.469	1.00	11.55	6	ATOM	2952	CE1 PHE A 362	34.961	32.330	21.423	1.00	5.15	6
ATOM	2900	O GLU A 355	18.718	16.405	23.441	1.00	11.55	8	ATOM	2953	CE2 PHE A 362	35.912	31.220	19.464	1.00	5.23	6
ATOM	2901	H SER A 356	20.569	15.450	22.576	1.00	11.30	7	ATOM	2954	CZ PHE A 362	36.039	32.080	20.579	1.00	5.49	6
ATOM	2902	CA SER A 356	21.130	15.577	23.939	1.00	11.56	6	ATOM	2955	C PHE A 362	30.967	32.053	19.251	1.00	8.28	6
ATOM	2903	CB SER A 356	21.398	14.171	24.475	1.00	13.81	6	ATOM	2956	O PHE A 362	30.857	32.004	18.043	1.00	7.85	8
ATOM	2904	CG SER A 356	22.246	13.514	23.552	1.00	18.62	8	ATOM	2957	N TYR A 363	31.117	33.210	19.872	1.00	8.47	7
ATOM	2905	C SER A 356	22.241	16.607	23.975	1.00	11.33	6	ATOM	2958	CA TYR A 363	31.144	34.545	19.289	1.00	8.84	6
ATOM	2906	O SER A 356	22.863	16.940	22.971	1.00	11.70	8	ATOM	2959	CB TYR A 363	31.363	35.652	20.344	1.00	9.13	6
ATOM	2907	H GLY A 357	22.426	17.219	25.136	1.00	10.87	7	ATOM	2960	CG TYR A 363	31.530	37.091	19.976	1.00	9.86	6
ATOM	2908	CA GLY A 357	23.363	18.269	25.422	1.00	10.39	6	ATOM	2961	CO1 TYR A 363	30.479	37.981	20.213	1.00	10.09	6
ATOM	2909	C GLY A 357	22.619	19.622	25.239	1.00	10.36	6	ATOM	2962	CE1 TYR A 363	30.585	39.317	19.904	1.00	10.35	6
ATOM	2910	O GLY A 357	21.602	19.837	24.547	1.00	10.17	8	ATOM	2963	CD2 TYR A 363	32.709	37.609	19.410	1.00	10.25	6
ATOM	2911	H TYR A 358	23.255	20.608	25.880	1.00	10.01	7	ATOM	2964	CE2 TYR A 363	32.850	38.956	19.091	1.00	10.30	6
ATOM	2912	CA TYR A 358	22.884	22.017	25.877	1.00	9.76	6	ATOM	2965	CZ TYR A 363	31.776	39.774	19.365	1.00	10.78	6
ATOM	2913	CB TYR A 358	22.669	22.498	27.311	1.00	9.60	6	ATOM	2966	OH TYR A 363	31.831	41.126	19.087	1.00	11.58	8
ATOM	2914	CG TYR A 358	22.268	23.937	27.516	1.00	9.61	6	ATOM	2967	C TYR A 363	32.241	34.680	18.187	1.00	8.73	6
ATOM	2915	CD1 TYR A 358	21.829	24.775	26.494	1.00	9.48	6	ATOM	2968	O TYR A 363	32.011	35.363	17.191	1.00	8.42	8

ATOM	2969	H	GLY A 364	33.399	34.040	18.452	1.00	8.56	7
ATOM	2970	CA	GLY A 364	34.472	34.061	17.503	1.00	8.81	6
ATOM	2971	C	GLY A 364	34.083	33.261	16.231	1.00	9.04	6
ATOM	2972	O	GLY A 364	34.596	33.639	15.156	1.00	8.91	8
ATOM	2973	H	ASP A 365	33.233	32.251	16.327	1.00	9.21	7
ATOM	2974	CA	ASP A 365	32.830	31.513	15.137	1.00	8.93	6
ATOM	2975	CB	ASP A 365	32.255	30.146	15.429	1.00	8.93	6
ATOM	2976	CG	ASP A 365	33.349	29.235	15.977	1.00	9.58	6
ATOM	2977	CD1	ASP A 365	34.516	29.422	15.641	1.00	10.56	8
ATOM	2978	CD2	ASP A 365	33.078	28.275	16.700	1.00	9.75	8
ATOM	2979	C	ASP A 365	31.780	32.264	14.321	1.00	10.69	6
ATOM	2980	O	ASP A 365	31.770	32.135	13.078	1.00	10.75	8
ATOM	2981	H	MET A 366	30.887	32.996	14.980	1.00	11.30	7
ATOM	2982	CA	MET A 366	29.857	33.792	14.295	1.00	11.93	6
ATOM	2983	CB	MET A 366	28.838	34.351	15.303	1.00	14.14	6
ATOM	2984	CG	MET A 366	27.828	33.348	15.827	1.00	17.97	6
ATOM	2985	SD	MET A 366	26.475	33.032	14.646	1.00	22.02	16
ATOM	2986	CE	MET A 366	25.576	34.590	14.752	1.00	20.61	6
ATOM	2987	C	MET A 366	30.455	35.016	13.604	1.00	12.33	6
ATOM	2988	O	MET A 366	30.240	35.367	12.445	1.00	12.31	8
ATOM	2989	H	TIR A 367	31.249	35.740	14.417	1.00	12.74	7
ATOM	2990	CA	TIR A 367	31.831	36.964	13.927	1.00	13.46	6
ATOM	2991	CB	TIR A 367	31.548	38.065	14.988	1.00	14.31	6
ATOM	2992	CG	TIR A 367	30.092	38.282	15.374	1.00	15.58	6
ATOM	2993	CD1	TIR A 367	29.721	38.284	16.730	1.00	15.98	6
ATOM	2994	CE1	TIR A 367	28.410	38.438	17.141	1.00	16.47	6
ATOM	2995	CD2	TIR A 367	29.075	38.425	14.433	1.00	16.06	6
ATOM	2996	CD2	TIR A 367	27.776	38.629	14.845	1.00	16.69	6
ATOM	2997	C2	TIR A 367	27.431	38.644	16.196	1.00	16.89	6
ATOM	2998	OH	TIR A 367	26.105	38.815	16.553	1.00	16.92	8
ATOM	2999	C	TIR A 367	33.299	36.913	13.589	1.00	13.51	6
ATOM	3000	O	TIR A 367	33.733	38.005	13.190	1.00	13.49	8
ATOM	3001	H	GLY A 368	34.050	35.837	13.717	1.00	13.66	7
ATOM	3002	CA	GLY A 368	35.472	35.957	13.368	1.00	14.18	6
ATOM	3003	C	GLY A 368	36.289	36.369	14.599	1.00	14.83	6
ATOM	3004	O	GLY A 368	35.746	36.992	15.528	1.00	15.20	8
ATOM	3005	H	TIR A 369	37.531	35.971	14.691	1.00	14.98	7
ATOM	3006	CA	TIR A 369	38.409	36.330	15.759	1.00	15.75	6
ATOM	3007	CB	TIR A 369	39.185	35.126	16.318	1.00	14.06	6
ATOM	3008	CG1	TIR A 369	39.926	34.392	15.324	1.00	11.76	8
ATOM	3009	CG2	TIR A 369	39.346	37.437	15.225	1.00	16.84	6
ATOM	3010	O	TIR A 369	39.727	37.463	14.039	1.00	16.53	8
ATOM	3011	C	TIR A 369	39.733	38.369	16.120	1.00	17.86	7
ATOM	3012	H	LYS A 370	40.568	39.488	15.712	1.00	19.14	6
ATOM	3013	CA	LYS A 370	38.702	40.792	16.133	1.00	22.20	6
ATOM	3014	CB	LYS A 370	39.849	41.073	15.133	1.00	26.42	6
ATOM	3015	CG	LYS A 370	39.254	41.271	13.736	1.00	29.66	6
ATOM	3016	CD	LYS A 370	38.326	41.239	12.544	1.00	32.10	6
ATOM	3017	CE	LYS A 370	39.111	41.178	11.243	1.00	33.93	7
ATOM	3018	H2	LYS A 370	41.998	39.442	16.214	1.00	19.90	6
ATOM	3019	C	LYS A 370	42.638	40.436	16.526	1.00	19.78	8
ATOM	3020	O	LYS A 370	42.534	38.244	16.329	1.00	20.85	7
ATOM	3021	H	GLY A 371	43.889	37.991	16.742	1.00	22.15	6
ATOM	3022	CA	GLY A 371	44.817	38.443	15.581	1.00	23.36	6
ATOM	3023	C	GLY A 371	44.393	38.896	14.521	1.00	23.05	8
ATOM	3024	O	GLY A 371	46.095	38.223	15.877	1.00	24.83	7
ATOM	3025	H	ASP A 372	47.186	38.626	15.016	1.00	26.55	6
ATOM	3026	CA	ASP A 372	48.323	39.306	15.874	1.00	31.39	6
ATOM	3027	CB	ASP A 372	47.962	40.791	15.968	1.00	34.93	6
ATOM	3028	CG	ASP A 372	47.609	41.363	14.906	1.00	37.36	8
ATOM	3029	OO1	ASP A 372	47.972	41.443	17.034	1.00	37.47	8
ATOM	3030	OO2	ASP A 372	47.796	37.520	14.189	1.00	27.31	6
ATOM	3031	C	ASP A 372	48.870	37.818	13.613	1.00	27.65	8
ATOM	3032	O	ASP A 372	47.162	36.353	14.146	1.00	27.64	7
ATOM	3033	H	SER A 373	47.800	35.318	13.305	1.00	27.95	6
ATOM	3034	CA	SER A 373	47.678	33.936	13.932	1.00	26.91	6
ATOM	3035	CB	SER A 373	46.393	33.416	13.642	1.00	28.21	8
ATOM	3036	OG	SER A 373	47.255	35.373	11.873	1.00	28.20	8
ATOM	3037	C	SER A 373	46.480	36.189	11.366	1.00	28.10	8
ATOM	3038	O	SER A 373	47.780	34.393	11.137	1.00	28.61	7
ATOM	3039	H	GLN A 374	47.348	34.201	9.729	1.00	28.86	6
ATOM	3040	CA	GLN A 374	48.525	34.112	8.767	1.00	34.24	6
ATOM	3041	CB	GLN A 374	49.400	35.309	8.530	1.00	40.44	6
ATOM	3042	CG	GLN A 374	48.939	36.714	8.874	1.00	45.21	6
ATOM	3043	CO	GLN A 374	48.111	37.342	8.149	1.00	47.86	8
ATOM	3044	OE1	GLN A 374	49.449	37.277	10.005	1.00	45.97	7
ATOM	3045	HE2	GLN A 374	46.414	32.963	9.719	1.00	28.21	6
ATOM	3046	C	GLN A 374	46.105	32.340	8.674	1.00	28.76	8
ATOM	3047	O	GLN A 374	45.952	32.517	10.873	1.00	26.96	7
ATOM	3048	H	ARG A 375	45.066	31.421	11.109	1.00	25.60	6
ATOM	3049	CA	ARG A 375	45.641	30.394	12.115	1.00	29.84	6
ATOM	3050	CB	ARG A 375	46.842	29.713	11.509	1.00	33.75	6
ATOM	3051	CG	ARG A 375	48.088	30.386	12.067	1.00	36.33	6
ATOM	3052	CD	ARG A 375	48.286	30.141	13.475	1.00	37.64	7
ATOM	3053	HE	ARG A 375	47.856	29.261	14.351	1.00	37.09	6
ATOM	3054	CZ	ARG A 375	47.016	28.308	13.998	1.00	37.77	7
ATOM	3055	HH1	ARG A 375	48.293	29.399	15.587	1.00	36.83	7
ATOM	3056	HH2	ARG A 375	43.777	31.845	11.827	1.00	23.88	6
ATOM	3057	C	ARG A 375	43.218	30.942	12.450	1.00	23.81	8
ATOM	3058	O	ARG A 375	43.399	33.116	11.777	1.00	22.28	7
ATOM	3059	H	GLU A 376	42.196	33.558	12.450	1.00	20.37	6
ATOM	3060	CA	GLU A 376	42.061	35.080	12.418	1.00	17.56	6
ATOM	3061	CB	GLU A 376	43.203	35.780	13.151	1.00	16.13	6
ATOM	3062	CG	GLU A 376	43.361	35.421	14.595	1.00	14.90	6
ATOM	3063	CD	GLU A 376	42.403	35.436	15.391	1.00	12.95	8
ATOM	3064	OE1	GLU A 376	44.510	35.108	15.051	1.00	16.10	8
ATOM	3065	OE2	GLU A 376	40.955	32.886	11.869	1.00	19.17	6
ATOM	3066	C	GLU A 376	40.801	32.503	10.715	1.00	18.94	8
ATOM	3067	O	GLU A 376	40.002	32.698	12.777	1.00	18.23	7
ATOM	3068	N	ILE A 377	38.726	32.102	12.410	1.00	17.23	6
ATOM	3069	CA	ILE A 377	37.924	31.634	13.636	1.00	15.28	6
ATOM	3070	CB	ILE A 377	36.616	30.961	13.205	1.00	15.23	6
ATOM	3071	CG1	ILE A 377	38.720	30.715	14.564	1.00	14.23	6
ATOM	3072	CG1	ILE A 377	38.109	30.512	15.935	1.00	13.53	6
ATOM	3073	CD1	ILE A 377	37.957	33.184	11.660	1.00	16.78	6
ATOM	3074	C	ILE A 377						

ATOM	3075	O	ILE A 377	37.783	34.301	12.173	1.00	16.90	8
ATOM	3076	H	PRO A 378	37.461	32.927	10.461	1.00	16.21	7
ATOM	3077	CD	PRO A 378	37.634	31.617	9.821	1.00	16.04	6
ATOM	3078	CA	PRO A 378	36.637	33.810	9.695	1.00	15.87	6
ATOM	3079	CB	PRO A 378	36.555	33.232	8.263	1.00	15.98	6
ATOM	3080	CG	PRO A 378	37.023	31.835	8.456	1.00	15.94	6
ATOM	3081	CC	PRO A 378	35.214	33.860	10.247	1.00	15.56	6
ATOM	3082	O	PRO A 378	34.741	32.945	10.946	1.00	15.55	8
ATOM	3083	H	ALA A 379	34.506	34.960	9.931	1.00	15.19	7
ATOM	3084	CA	ALA A 379	33.095	35.063	10.370	1.00	14.83	6
ATOM	3085	CB	ALA A 379	32.523	36.450	10.119	1.00	13.37	6
ATOM	3086	C	ALA A 379	32.246	33.979	9.679	1.00	14.60	6
ATOM	3087	O	ALA A 379	32.082	33.990	8.438	1.00	14.65	8
ATOM	3088	H	LEU A 380	31.703	33.021	10.428	1.00	14.28	7
ATOM	3089	CA	LEU A 380	30.925	31.960	9.792	1.00	14.14	6
ATOM	3090	CB	LEU A 380	31.468	30.617	10.265	1.00	15.00	6
ATOM	3091	CG	LEU A 380	32.913	30.303	9.865	1.00	16.56	6
ATOM	3092	CD	LEU A 380	33.486	29.165	10.688	1.00	16.26	6
ATOM	3093	CC	LEU A 380	32.975	30.004	8.350	1.00	16.68	6
ATOM	3094	C	LEU A 380	29.448	32.123	10.017	1.00	14.34	6
ATOM	3095	O	LEU A 380	28.602	31.262	9.773	1.00	14.38	8
ATOM	3096	H	LYS A 381	29.011	33.278	10.475	1.00	14.36	7
ATOM	3097	CA	LYS A 381	27.615	33.579	10.719	1.00	14.84	6
ATOM	3098	CB	LYS A 381	27.672	35.101	10.820	1.00	18.02	6
ATOM	3099	CG	LYS A 381	26.382	35.855	10.702	1.00	21.47	6
ATOM	3100	CD	LYS A 381	26.754	37.314	10.944	1.00	25.20	6
ATOM	3101	CE	LYS A 381	25.912	38.275	10.104	1.00	28.81	6
ATOM	3102	H2	LYS A 381	24.564	38.411	10.770	1.00	30.73	7
ATOM	3103	C	LYS A 381	26.667	33.106	9.634	1.00	14.98	6
ATOM	3104	O	LYS A 381	25.589	32.577	9.911	1.00	14.84	8
ATOM	3105	H	HIS A 382	26.978	33.273	8.350	1.00	14.98	7
ATOM	3106	CA	HIS A 382	26.079	32.889	7.268	1.00	15.22	6
ATOM	3107	CB	HIS A 382	26.562	33.593	5.986	1.00	21.24	6
ATOM	3108	CG	HIS A 382	28.036	33.424	5.842	1.00	25.72	6
ATOM	3109	CD	HIS A 382	29.070	33.878	6.615	1.00	28.03	7
ATOM	3110	CE	HIS A 382	28.569	32.671	4.810	1.00	27.36	6
ATOM	3111	H01	HIS A 382	29.903	32.712	4.939	1.00	28.96	6
ATOM	3112	H2	HIS A 382	30.216	33.424	6.041	1.00	28.60	7
ATOM	3113	C	HIS A 382	25.947	31.415	7.118	1.00	15.05	6
ATOM	3114	O	HIS A 382	24.948	30.932	6.602	1.00	15.08	8
ATOM	3115	H	LYS A 383	26.887	30.595	7.622	1.00	14.81	7
ATOM	3116	CA	LYS A 383	26.802	29.161	7.615	1.00	14.36	6
ATOM	3117	CB	LYS A 383	28.186	28.551	7.528	1.00	16.14	6
ATOM	3118	CG	LYS A 383	29.014	29.281	6.505	1.00	20.51	6
ATOM	3119	CD	LYS A 383	29.147	28.507	5.230	1.00	23.48	6
ATOM	3120	CE	LYS A 383	30.673	28.350	4.977	1.00	26.30	6
ATOM	3121	H2	LYS A 383	31.046	29.207	3.792	1.00	27.91	7
ATOM	3122	C	LYS A 383	26.207	28.595	8.926	1.00	13.88	6
ATOM	3123	O	LYS A 383	25.694	27.478	8.956	1.00	13.80	8
ATOM	3124	H	ILE A 384	26.351	29.374	10.004	1.00	13.23	7
ATOM	3125	CA	ILE A 384	25.814	28.889	11.252	1.00	12.99	6
ATOM	3126	CB	ILE A 384	26.509	29.381	12.486	1.00	13.25	6
ATOM	3127	CC	ILE A 384	25.905	29.000	13.778	1.00	12.19	6
ATOM	3128	CG1	ILE A 384	28.029	28.790	12.411	1.00	13.70	6
ATOM	3129	CD1	ILE A 384	28.902	29.649	13.343	1.00	15.12	6
ATOM	3130	C	ILE A 384	24.335	29.241	11.430	1.00	12.61	6
ATOM	3131	O	ILE A 384	23.621	28.363	11.931	1.00	12.68	8
ATOM	3132	H	GLU A 385	23.841	30.401	11.025	1.00	12.22	7
ATOM	3133	CA	GLU A 385	22.459	30.804	11.178	1.00	12.09	6
ATOM	3134	CB	GLU A 385	22.249	32.252	10.671	1.00	13.25	6
ATOM	3135	CG	GLU A 385	23.039	33.148	11.637	1.00	16.06	6
ATOM	3136	CD	GLU A 385	22.681	34.621	11.531	1.00	18.04	6
ATOM	3137	OE1	GLU A 385	22.002	35.050	10.531	1.00	18.27	8
ATOM	3138	OE2	GLU A 385	22.960	35.427	12.453	1.00	18.60	8
ATOM	3139	C	GLU A 385	21.439	29.867	10.587	1.00	11.96	6
ATOM	3140	O	GLU A 385	20.439	29.608	11.273	1.00	12.04	8
ATOM	3141	H	PRO A 386	21.614	29.230	9.436	1.00	11.74	7
ATOM	3142	CD	PRO A 386	22.735	29.467	8.528	1.00	11.74	6
ATOM	3143	CA	PRO A 386	20.676	28.265	8.905	1.00	11.52	6
ATOM	3144	CB	PRO A 386	21.205	27.847	7.516	1.00	11.54	6
ATOM	3145	CG	PRO A 386	22.167	28.967	7.199	1.00	11.74	6
ATOM	3146	C	PRO A 386	20.545	27.050	9.826	1.00	11.28	6
ATOM	3147	O	PRO A 386	19.493	26.419	9.963	1.00	11.21	8
ATOM	3148	H	ILE A 387	21.617	26.648	10.530	1.00	11.05	7
ATOM	3149	CA	ILE A 387	21.619	25.492	11.424	1.00	10.84	6
ATOM	3150	CB	ILE A 387	23.047	24.957	11.653	1.00	8.79	6
ATOM	3151	CG2	ILE A 387	22.978	23.619	12.340	1.00	6.90	6
ATOM	3152	CG1	ILE A 387	23.799	24.850	10.310	1.00	8.27	6
ATOM	3153	CD1	ILE A 387	25.231	24.430	10.511	1.00	9.38	6
ATOM	3154	C	ILE A 387	20.917	25.808	12.754	1.00	11.01	6
ATOM	3155	O	ILE A 387	20.273	24.946	13.366	1.00	10.92	8
ATOM	3156	H	LEU A 388	21.058	27.064	13.176	1.00	11.09	7
ATOM	3157	CA	LEU A 388	20.400	27.620	14.345	1.00	11.19	6
ATOM	3158	CB	LEU A 388	20.902	29.010	14.682	1.00	10.46	6
ATOM	3159	CG	LEU A 388	22.084	29.061	15.638	1.00	11.84	6
ATOM	3160	CD1	LEU A 388	22.502	30.545	15.745	1.00	11.69	6
ATOM	3161	CD2	LEU A 388	21.636	28.377	16.916	1.00	10.70	6
ATOM	3162	C	LEU A 388	18.007	27.888	14.042	1.00	11.21	6
ATOM	3163	O	LEU A 388	18.017	27.443	14.899	1.00	11.36	8
ATOM	3164	H	LYS A 389	18.551	28.015	12.792	1.00	11.22	7
ATOM	3165	CA	LYS A 389	17.142	28.017	12.353	1.00	11.08	6
ATOM	3166	CB	LYS A 389	17.014	28.553	10.952	1.00	14.65	6
ATOM	3167	CG	LYS A 389	15.591	28.665	10.402	1.00	20.09	6
ATOM	3168	CD	LYS A 389	15.454	30.134	9.985	1.00	24.33	6
ATOM	3169	CE	LYS A 389	14.860	30.232	8.592	1.00	27.30	6
ATOM	3170	H2	LYS A 389	13.649	29.337	8.568	1.00	30.42	7
ATOM	3171	C	LYS A 389	16.620	26.566	12.377	1.00	10.52	6
ATOM	3172	O	LYS A 389	15.474	26.300	12.746	1.00	10.45	8
ATOM	3173	H	ALA A 390	17.445	25.613	11.937	1.00	10.03	7
ATOM	3174	CA	ALA A 390	17.007	24.226	12.020	1.00	9.88	6
ATOM	3175	CB	ALA A 390	17.970	23.263	11.375	1.00	7.86	6
ATOM	3176	C	ALA A 390	16.848	23.832	13.506	1.00	9.86	6
ATOM	3177	O	ALA A 390	15.876	23.103	13.761	1.00	9.92	8
ATOM	3178	H	ARG A 391	17.713	24.258	14.440	1.00	9.66	7
ATOM	3179	CA	ARG A 391	17.540	23.914	15.857	1.00	9.64	6
ATOM	3180	CD	ARG A 391	18.666	24.410	16.800	1.00	8.27	6

ATOM	3181	CG	ARG A 391	18.295	24.255	18.295	1.00	6.17	6
ATOM	3182	CD	ARG A 391	19.637	24.301	19.079	1.00	6.11	6
ATOM	3183	HE	ARG A 391	19.415	23.982	20.476	1.00	6.39	7
ATOM	3184	CZ	ARG A 391	19.411	22.752	21.057	1.00	8.41	6
ATOM	3185	HH1	ARG A 391	19.671	21.719	20.264	1.00	7.01	7
ATOM	3186	HH2	ARG A 391	19.147	22.533	22.359	1.00	6.75	7
ATOM	3187	C	ARG A 391	16.258	24.518	16.434	1.00	9.84	6
ATOM	3188	O	ARG A 391	15.482	23.860	17.089	1.00	9.35	6
ATOM	3189	H	LYS A 392	16.061	25.811	16.184	1.00	10.42	7
ATOM	3190	CA	LYS A 392	14.904	26.555	16.666	1.00	11.31	6
ATOM	3191	CB	LYS A 392	15.137	28.036	16.253	1.00	13.27	6
ATOM	3192	CG	LYS A 392	14.066	28.928	16.797	1.00	16.07	6
ATOM	3193	CD	LYS A 392	14.176	30.388	16.369	1.00	20.09	6
ATOM	3194	CE	LYS A 392	12.806	31.069	16.665	1.00	23.10	6
ATOM	3195	NZ	LYS A 392	12.989	32.560	16.682	1.00	26.05	7
ATOM	3196	C	LYS A 392	13.536	26.046	16.200	1.00	11.94	6
ATOM	3197	O	LYS A 392	12.590	25.903	17.011	1.00	11.92	8
ATOM	3198	H	GLN A 393	13.349	25.676	14.916	1.00	12.38	7
ATOM	3199	CA	GLN A 393	12.091	25.218	14.386	1.00	12.80	6
ATOM	3200	CB	GLN A 393	11.736	25.947	13.069	1.00	17.13	6
ATOM	3201	CG	GLN A 393	12.463	27.237	12.917	1.00	24.67	6
ATOM	3202	CD	GLN A 393	11.701	28.402	12.316	1.00	29.33	6
ATOM	3203	OE1	GLN A 393	11.924	28.717	11.149	1.00	30.64	8
ATOM	3204	HE2	GLN A 393	10.856	29.003	13.159	1.00	31.70	7
ATOM	3205	C	GLN A 393	11.921	23.764	13.940	1.00	12.57	6
ATOM	3206	O	GLN A 393	10.718	23.422	13.839	1.00	12.77	8
ATOM	3207	H	TYR A 394	12.995	23.041	13.678	1.00	11.99	7
ATOM	3208	CA	TYR A 394	12.839	21.690	13.167	1.00	11.56	6
ATOM	3209	CB	TYR A 394	13.577	21.661	11.798	1.00	11.71	6
ATOM	3210	CG	TYR A 394	12.942	22.687	10.852	1.00	12.27	6
ATOM	3211	CD1	TYR A 394	13.444	23.941	10.588	1.00	12.30	6
ATOM	3212	CE1	TYR A 394	12.811	24.826	9.747	1.00	12.61	6
ATOM	3213	CD2	TYR A 394	11.754	22.328	10.236	1.00	12.73	6
ATOM	3214	CE2	TYR A 394	11.066	23.192	9.378	1.00	13.02	6
ATOM	3215	CZ	TYR A 394	11.615	24.442	9.136	1.00	13.05	6
ATOM	3216	OH	TYR A 394	10.942	25.224	8.229	1.00	13.25	8
ATOM	3217	C	TYR A 394	13.360	20.552	14.017	1.00	11.27	6
ATOM	3218	O	TYR A 394	12.866	19.424	13.834	1.00	10.94	8
ATOM	3219	H	ALA A 395	14.338	20.794	14.908	1.00	8.72	6
ATOM	3220	CA	ALA A 395	14.896	19.692	15.694	1.00	10.74	6
ATOM	3221	CB	ALA A 395	16.305	20.151	16.074	1.00	10.85	6
ATOM	3222	C	ALA A 395	14.101	19.267	16.920	1.00	10.85	6
ATOM	3223	O	ALA A 395	14.392	19.591	18.082	1.00	10.94	8
ATOM	3224	H	TYR A 396	12.986	18.545	16.743	1.00	10.85	7
ATOM	3225	CA	TYR A 396	12.061	18.070	17.753	1.00	10.83	6
ATOM	3226	CB	TYR A 396	10.763	18.949	17.821	1.00	10.80	6
ATOM	3227	CG	TYR A 396	11.083	20.390	18.180	1.00	10.52	6
ATOM	3228	CD1	TYR A 396	11.333	21.365	17.195	1.00	10.49	6
ATOM	3229	CE1	TYR A 396	11.683	22.665	17.546	1.00	10.23	6
ATOM	3230	CD2	TYR A 396	11.215	20.744	19.504	1.00	10.24	6
ATOM	3231	CE2	TYR A 396	11.536	22.043	19.835	1.00	10.18	6
ATOM	3232	CZ	TYR A 396	11.799	22.984	18.874	1.00	10.23	6
ATOM	3233	OH	TYR A 396	12.200	24.237	19.305	1.00	10.59	8
ATOM	3234	C	TYR A 396	11.624	16.631	17.499	1.00	10.90	6
ATOM	3235	O	TYR A 396	11.615	16.137	16.372	1.00	10.58	8
ATOM	3236	H	GLY A 397	11.252	15.899	18.555	1.00	11.07	7
ATOM	3237	CA	GLY A 397	10.772	14.542	18.296	1.00	11.32	6
ATOM	3238	C	GLY A 397	11.808	13.450	18.353	1.00	11.58	6
ATOM	3239	O	GLY A 397	13.001	13.761	18.466	1.00	12.00	8
ATOM	3240	H	ALA A 398	11.341	12.228	18.304	1.00	11.57	7
ATOM	3241	CA	ALA A 398	12.172	11.044	18.341	1.00	11.80	6
ATOM	3242	CB	ALA A 398	11.261	9.824	18.105	1.00	9.85	6
ATOM	3243	C	ALA A 398	13.340	11.115	17.365	1.00	12.04	6
ATOM	3244	O	ALA A 398	13.259	11.447	16.176	1.00	12.09	8
ATOM	3245	H	GLN A 399	14.532	10.718	17.833	1.00	12.00	7
ATOM	3246	CA	GLN A 399	15.761	10.691	17.058	1.00	12.04	6
ATOM	3247	CB	GLN A 399	16.871	11.357	17.912	1.00	10.48	6
ATOM	3248	CG	GLN A 399	18.261	11.287	17.346	1.00	9.54	6
ATOM	3249	CD	GLN A 399	19.195	12.269	18.066	1.00	9.97	6
ATOM	3250	OE1	GLN A 399	10.983	13.467	18.191	1.00	8.29	8
ATOM	3251	HE2	GLN A 399	20.306	11.751	18.528	1.00	9.30	7
ATOM	3252	C	GLN A 399	16.212	9.307	16.643	1.00	12.27	6
ATOM	3253	O	GLN A 399	16.138	8.327	17.361	1.00	12.26	8
ATOM	3254	H	HIS A 400	16.765	9.135	15.415	1.00	12.36	7
ATOM	3255	CA	HIS A 400	17.270	7.893	14.903	1.00	12.28	6
ATOM	3256	CB	HIS A 400	16.419	7.243	13.800	1.00	12.34	6
ATOM	3257	CG	HIS A 400	15.001	6.998	14.252	1.00	13.76	6
ATOM	3258	CD2	HIS A 400	14.464	6.087	15.135	1.00	12.53	6
ATOM	3259	ND1	HIS A 400	13.959	7.856	13.831	1.00	13.34	7
ATOM	3260	CE1	HIS A 400	12.860	7.408	14.435	1.00	11.97	6
ATOM	3261	HE2	HIS A 400	13.095	6.378	15.194	1.00	11.69	7
ATOM	3262	C	HIS A 400	18.710	8.179	14.411	1.00	12.21	6
ATOM	3263	O	HIS A 400	18.909	9.132	13.670	1.00	11.78	8
ATOM	3264	H	ASP A 401	19.651	7.332	14.895	1.00	12.31	7
ATOM	3265	CA	ASP A 401	21.043	7.503	14.536	1.00	12.71	6
ATOM	3266	CB	ASP A 401	21.964	7.308	15.758	1.00	15.32	6
ATOM	3267	CG	ASP A 401	21.883	8.427	16.767	1.00	18.10	6
ATOM	3268	CD1	ASP A 401	21.438	9.578	16.520	1.00	20.24	8
ATOM	3269	CD2	ASP A 401	22.299	8.187	17.921	1.00	19.29	8
ATOM	3270	C	ASP A 401	21.556	6.515	13.484	1.00	12.57	6
ATOM	3271	O	ASP A 401	21.145	5.360	13.483	1.00	12.31	8
ATOM	3272	H	TYR A 402	22.305	6.972	12.584	1.00	12.55	7
ATOM	3273	CA	TYR A 402	22.977	6.173	11.524	1.00	12.68	6
ATOM	3274	CB	TYR A 402	22.385	6.495	10.130	1.00	12.98	6
ATOM	3275	CG	TYR A 402	20.891	6.179	10.105	1.00	13.23	6
ATOM	3276	CD1	TYR A 402	19.990	7.186	10.470	1.00	13.64	6
ATOM	3277	CE1	TYR A 402	18.631	6.952	10.544	1.00	13.64	6
ATOM	3278	CD2	TYR A 402	20.378	4.927	9.801	1.00	13.10	6
ATOM	3279	CE2	TYR A 402	19.018	4.654	9.819	1.00	13.39	6
ATOM	3280	CZ	TYR A 402	18.168	5.676	10.195	1.00	14.02	6
ATOM	3281	OH	TYR A 402	16.795	5.502	10.282	1.00	14.72	8
ATOM	3282	C	TYR A 402	24.478	6.371	11.592	1.00	13.30	6
ATOM	3283	O	TYR A 402	25.019	7.054	10.747	1.00	13.17	8
ATOM	3284	H	PIE A 403	25.162	5.818	12.581	1.00	14.08	7
ATOM	3285	CA	PIE A 403	26.591	5.861	12.792	1.00	14.73	6
ATOM	3286	CG	PIE A 403	26.978	6.035	14.266	1.00	16.26	6

ATOM	3287	CG	PHE A 403	26.766	7.486	14.665	1.00	19.71	6
ATOM	3288	CD1	PHE A 403	25.574	7.927	15.176	1.00	20.07	6
ATOM	3289	CD2	PHE A 403	27.748	8.440	14.483	1.00	21.01	6
ATOM	3290	CE1	PHE A 403	25.379	9.241	15.534	1.00	21.71	6
ATOM	3291	CE2	PHE A 403	27.540	9.786	14.804	1.00	22.26	6
ATOM	3292	CZ	PHE A 403	26.338	10.216	15.345	1.00	21.47	6
ATOM	3293	C	PHE A 403	27.113	4.537	12.220	1.00	15.16	6
ATOM	3294	O	PHE A 403	27.616	3.625	12.902	1.00	15.23	7
ATOM	3295	H	ASP A 404	26.987	4.370	10.906	1.00	15.33	8
ATOM	3296	CA	ASP A 404	27.398	3.103	10.294	1.00	15.59	6
ATOM	3297	CB	ASP A 404	26.115	2.428	9.754	1.00	17.33	6
ATOM	3298	CG	ASP A 404	25.433	3.431	8.838	1.00	19.38	6
ATOM	3299	CD1	ASP A 404	25.870	4.570	8.544	1.00	19.96	8
ATOM	3300	CD2	ASP A 404	24.330	3.060	8.407	1.00	21.24	8
ATOM	3301	C	ASP A 404	28.346	3.116	9.119	1.00	15.47	6
ATOM	3302	O	ASP A 404	28.339	2.154	8.320	1.00	15.71	8
ATOM	3303	H	HIS A 405	30.098	4.144	8.997	1.00	15.11	7
ATOM	3304	CA	HIS A 405	29.332	4.915	6.719	1.00	14.80	6
ATOM	3305	CB	HIS A 405	30.187	4.926	5.492	1.00	15.21	6
ATOM	3306	CG	HIS A 405	30.385	3.954	4.561	1.00	15.68	6
ATOM	3307	CD1	HIS A 405	30.992	5.990	5.157	1.00	15.84	7
ATOM	3308	CD2	HIS A 405	31.654	5.723	4.041	1.00	16.58	6
ATOM	3309	CE1	HIS A 405	31.309	4.491	3.680	1.00	17.15	7
ATOM	3310	CE2	HIS A 405	31.280	5.023	8.383	1.00	14.46	6
ATOM	3311	C	HIS A 405	31.008	5.908	9.197	1.00	14.63	8
ATOM	3312	O	HIS A 405	32.494	4.841	7.963	1.00	14.11	7
ATOM	3313	H	HIS A 406	33.630	5.587	8.495	1.00	13.78	6
ATOM	3314	CA	HIS A 406	35.000	4.932	8.189	1.00	15.67	6
ATOM	3315	CB	HIS A 406	34.981	4.416	6.777	1.00	16.76	6
ATOM	3316	CG	HIS A 406	34.450	3.285	6.232	1.00	16.51	6
ATOM	3317	CD1	HIS A 406	35.504	5.164	5.733	1.00	18.12	7
ATOM	3318	CD2	HIS A 406	35.318	4.505	4.578	1.00	16.95	6
ATOM	3319	CE1	HIS A 406	34.666	3.388	4.880	1.00	17.55	7
ATOM	3320	CE2	HIS A 406	33.580	7.002	8.026	1.00	13.47	6
ATOM	3321	C	HIS A 406	34.298	7.753	8.672	1.00	13.10	8
ATOM	3322	O	HIS A 406	32.861	7.500	7.048	1.00	13.42	7
ATOM	3323	H	ASP A 407	32.837	8.877	6.628	1.00	13.27	6
ATOM	3324	CA	ASP A 407	33.163	9.063	5.138	1.00	14.59	6
ATOM	3325	CB	ASP A 407	34.556	8.665	4.654	1.00	16.13	6
ATOM	3326	CG	ASP A 407	35.474	8.360	5.486	1.00	14.23	8
ATOM	3327	CD1	ASP A 407	34.808	8.646	3.381	1.00	18.38	8
ATOM	3328	CD2	ASP A 407	31.457	9.532	6.757	1.00	12.98	6
ATOM	3329	C	ASP A 407	31.310	10.601	7.360	1.00	12.77	8
ATOM	3330	O	ASP A 407	30.465	8.890	6.167	1.00	12.85	7
ATOM	3331	H	ILE A 408	29.098	9.438	6.133	1.00	12.79	6
ATOM	3332	CA	ILE A 408	28.429	9.103	4.799	1.00	14.07	6
ATOM	3333	CB	ILE A 408	27.045	9.742	4.656	1.00	12.86	6
ATOM	3334	CG1	ILE A 408	29.251	9.578	3.597	1.00	13.69	6
ATOM	3335	CG2	ILE A 408	28.979	8.781	2.321	1.00	14.63	6
ATOM	3336	CD1	ILE A 408	28.219	8.885	7.260	1.00	12.60	6
ATOM	3337	C	ILE A 408	27.838	7.712	7.271	1.00	12.81	8
ATOM	3338	O	ILE A 408	27.910	9.762	8.195	1.00	12.05	7
ATOM	3339	H	VAL A 409						
ATOM	3340	CA	VAL A 409						
ATOM	3341	CB	VAL A 409						
ATOM	3342	CG1	VAL A 409						
ATOM	3343	CG2	VAL A 409						
ATOM	3344	C	VAL A 409						
ATOM	3345	O	VAL A 409						
ATOM	3346	N	GLY A 410						
ATOM	3347	CA	GLY A 410						
ATOM	3348	C	GLY A 410						
ATOM	3349	O	GLY A 410						
ATOM	3350	N	TRP A 411						
ATOM	3351	CA	TRP A 411						
ATOM	3352	CB	TRP A 411						
ATOM	3353	CG	TRP A 411						
ATOM	3354	CD1	TRP A 411						
ATOM	3355	CD2	TRP A 411						
ATOM	3356	CE1	TRP A 411						
ATOM	3357	CE2	TRP A 411						
ATOM	3358	CE3	TRP A 411						
ATOM	3359	NE1	TRP A 411						
ATOM	3360	NE2	TRP A 411						
ATOM	3361	NE3	TRP A 411						
ATOM	3362	C	TRP A 411						
ATOM	3363	O	TRP A 411						
ATOM	3364	H	THR A 412						
ATOM	3365	CA	THR A 412						
ATOM	3366	CB	THR A 412						
ATOM	3367	CG1	THR A 412						
ATOM	3368	CG2	THR A 412						
ATOM	3369	C	THR A 412						
ATOM	3370	O	THR A 412						
ATOM	3371	N	ARG A 413						
ATOM	3372	CA	ARG A 413						
ATOM	3373	CB	ARG A 413						
ATOM	3374	CG	ARG A 413						
ATOM	3375	CD	ARG A 413						
ATOM	3376	NE	ARG A 413						
ATOM	3377	CZ	ARG A 413						
ATOM	3378	NH1	ARG A 413						
ATOM	3379	NH2	ARG A 413						
ATOM	3380	C	ARG A 413						
ATOM	3381	O	ARG A 413						
ATOM	3382	N	GLU A 414						
ATOM	3383	CA	GLU A 414						
ATOM	3384	CB	GLU A 414						
ATOM	3385	CG	GLU A 414						
ATOM	3386	CD	GLU A 414						
ATOM	3387	CE	GLU A 414						
ATOM	3388	CE2	GLU A 414						
ATOM	3389	C	GLU A 414						
ATOM	3390	O	GLU A 414						
ATOM	3391	N	GLY A 415						
ATOM	3392	GA	GLY A 415						

ATOM	3393	C	GLY A 415	8.276	15.870	15.637	1.00	17.18	6
ATOM	3394	O	GLY A 415	8.176	14.768	16.148	1.00	17.23	8
ATOM	3395	H	ASP A 416	7.581	16.904	16.048	1.00	18.70	7
ATOM	3396	CA	ASP A 416	6.606	16.860	17.118	1.00	20.18	6
ATOM	3397	CB	ASP A 416	7.228	17.531	18.307	1.00	26.49	6
ATOM	3398	CG	ASP A 416	6.358	17.615	19.535	1.00	31.33	6
ATOM	3399	COO1	ASP A 416	6.791	18.402	20.413	1.00	35.28	8
ATOM	3400	COO2	ASP A 416	5.301	16.975	19.696	1.00	32.88	8
ATOM	3401	C	ASP A 416	5.400	17.597	16.568	1.00	21.08	6
ATOM	3402	O	ASP A 416	5.423	18.631	15.908	1.00	20.94	8
ATOM	3403	H	SER A 417	4.234	17.031	16.824	1.00	22.16	7
ATOM	3404	CA	SER A 417	2.928	17.484	16.380	1.00	23.18	6
ATOM	3405	CB	SER A 417	1.868	16.471	16.846	1.00	27.52	6
ATOM	3406	CG	SER A 417	1.734	16.874	18.237	1.00	32.78	8
ATOM	3407	C	SER A 417	2.585	18.852	16.929	1.00	23.50	6
ATOM	3408	O	SER A 417	1.821	19.541	16.258	1.00	23.90	8
ATOM	3409	H	SER A 418	3.145	19.217	18.073	1.00	23.61	7
ATOM	3410	CA	SER A 418	2.982	20.541	18.628	1.00	24.90	6
ATOM	3411	CB	SER A 418	3.247	20.523	20.135	1.00	27.24	8
ATOM	3412	CG	SER A 418	4.660	20.195	20.198	1.00	23.37	6
ATOM	3413	C	SER A 418	3.988	21.525	18.023	1.00	23.96	8
ATOM	3414	O	SER A 418	4.894	21.195	17.094	1.00	22.44	7
ATOM	3415	H	VAL A 419	5.793	22.233	16.490	1.00	21.33	6
ATOM	3416	CA	VAL A 419	7.278	22.269	16.815	1.00	19.53	6
ATOM	3417	CB	VAL A 419	8.070	23.317	16.038	1.00	15.95	6
ATOM	3418	CG1	VAL A 419	7.558	22.527	18.315	1.00	18.97	6
ATOM	3419	CG2	VAL A 419	5.477	21.951	14.988	1.00	20.67	6
ATOM	3420	C	VAL A 419	5.911	20.939	14.404	1.00	20.45	8
ATOM	3421	O	VAL A 419	4.616	22.803	14.400	1.00	20.01	7
ATOM	3422	H	ALA A 420	4.174	22.558	13.017	1.00	19.28	6
ATOM	3423	CA	ALA A 420	3.189	23.619	12.527	1.00	19.92	6
ATOM	3424	CB	ALA A 420	5.329	22.464	12.050	1.00	18.43	6
ATOM	3425	C	ALA A 420	6.221	23.297	12.166	1.00	18.43	8
ATOM	3426	O	ALA A 420	5.312	21.471	11.161	1.00	17.67	7
ATOM	3427	H	ASH A 421	6.356	21.242	10.168	1.00	16.69	6
ATOM	3428	CA	ASH A 421	6.537	22.436	9.204	1.00	19.20	6
ATOM	3429	CB	ASH A 421	5.312	22.617	8.330	1.00	21.29	6
ATOM	3430	CG	ASH A 421	4.586	21.711	7.966	1.00	22.05	8
ATOM	3431	COO1	ASH A 421	5.028	23.853	7.994	1.00	15.64	6
ATOM	3432	NO2	ASH A 421	7.760	20.891	10.703	1.00	15.23	8
ATOM	3433	C	ASH A 421	8.711	20.946	9.931	1.00	15.23	8
ATOM	3434	O	ASH A 421	7.882	20.479	11.947	1.00	14.78	7
ATOM	3435	H	SER A 422	9.140	20.088	12.542	1.00	14.31	6
ATOM	3436	CA	SER A 422	9.064	20.137	14.071	1.00	14.31	6
ATOM	3437	CB	SER A 422	7.990	19.345	14.623	1.00	13.80	8
ATOM	3438	CG	SER A 422	9.518	18.705	12.009	1.00	13.67	6
ATOM	3439	C	SER A 422	8.713	17.932	11.459	1.00	13.79	8
ATOM	3440	O	SER A 422	10.797	18.389	12.161	1.00	12.94	7
ATOM	3441	H	GLY A 423	11.329	17.086	11.679	1.00	12.05	6
ATOM	3442	CA	GLY A 423	12.546	17.472	10.825	1.00	11.56	6
ATOM	3443	C	GLY A 423	12.532	18.566	10.232	1.00	11.46	8
ATOM	3444	O	GLY A 423	13.562	16.612	10.738	1.00	10.94	7
ATOM	3445	H	LEU A 424						
ATOM	3446	CA	LEU A 424	14.738	16.900	9.939	1.00	10.33	6
ATOM	3447	CB	LEU A 424	15.547	10.024	10.607	1.00	7.87	6
ATOM	3448	CG	LEU A 424	16.337	17.716	11.885	1.00	8.31	6
ATOM	3449	CO1	LEU A 424	17.570	16.854	11.716	1.00	6.65	6
ATOM	3450	CO2	LEU A 424	16.682	19.107	12.547	1.00	8.33	6
ATOM	3451	C	LEU A 424	15.577	15.630	9.701	1.00	10.11	6
ATOM	3452	O	LEU A 424	15.448	14.626	10.407	1.00	10.06	8
ATOM	3453	H	ALA A 425	16.469	15.658	8.706	1.00	9.69	7
ATOM	3454	CA	ALA A 425	17.366	14.563	8.361	1.00	9.38	6
ATOM	3455	CB	ALA A 425	16.885	13.742	7.143	1.00	6.73	6
ATOM	3456	C	ALA A 425	18.723	15.226	8.124	1.00	9.43	6
ATOM	3457	O	ALA A 425	18.068	16.069	7.188	1.00	9.26	8
ATOM	3458	H	ALA A 426	19.705	14.875	8.971	1.00	9.31	7
ATOM	3459	CA	ALA A 426	21.016	15.474	8.873	1.00	9.28	6
ATOM	3460	CB	ALA A 426	21.436	16.104	10.234	1.00	9.50	6
ATOM	3461	C	ALA A 426	22.032	14.435	8.414	1.00	9.49	6
ATOM	3462	O	ALA A 427	21.909	13.294	8.823	1.00	9.20	8
ATOM	3463	H	LEU A 427	22.965	14.846	7.501	1.00	9.84	7
ATOM	3464	CA	LEU A 427	24.057	14.016	7.090	1.00	10.53	6
ATOM	3465	CB	LEU A 427	23.734	13.630	5.656	1.00	11.90	6
ATOM	3466	CG	LEU A 427	23.768	12.238	5.042	1.00	13.08	6
ATOM	3467	CO1	LEU A 427	23.577	11.104	6.058	1.00	11.36	6
ATOM	3468	CO2	LEU A 427	22.742	12.170	3.946	1.00	12.77	6
ATOM	3469	C	LEU A 427	25.327	14.877	7.098	1.00	10.73	6
ATOM	3470	O	LEU A 427	25.367	16.056	6.700	1.00	10.84	8
ATOM	3471	H	ILE A 428	26.460	14.404	7.520	1.00	10.83	7
ATOM	3472	CA	ILE A 428	27.758	15.045	7.515	1.00	11.06	6
ATOM	3473	CB	ILE A 428	28.190	15.609	8.889	1.00	11.39	6
ATOM	3474	CG2	ILE A 428	27.289	16.778	9.305	1.00	10.87	6
ATOM	3475	CG1	ILE A 428	28.230	14.513	9.993	1.00	9.31	6
ATOM	3476	CO1	ILE A 428	28.912	15.018	11.283	1.00	8.18	6
ATOM	3477	C	ILE A 428	28.779	14.006	6.996	1.00	11.33	6
ATOM	3478	O	ILE A 428	28.561	12.780	7.210	1.00	11.63	8
ATOM	3479	H	THR A 429	29.801	14.325	6.326	1.00	11.15	7
ATOM	3480	CA	THR A 429	30.073	13.403	5.891	1.00	10.98	6
ATOM	3481	CB	THR A 429	31.176	13.138	4.393	1.00	11.90	6
ATOM	3482	OG1	THR A 429	30.085	13.558	3.592	1.00	14.12	8
ATOM	3483	CG2	THR A 429	31.612	11.738	4.125	1.00	8.62	6
ATOM	3484	C	THR A 429	32.246	14.119	6.111	1.00	10.97	6
ATOM	3485	O	THR A 429	32.413	15.275	5.717	1.00	10.27	8
ATOM	3486	H	ASP A 430	33.213	13.328	6.605	1.00	11.50	7
ATOM	3487	CA	ASP A 430	34.540	13.968	6.672	1.00	11.94	6
ATOM	3488	CB	ASP A 430	35.391	13.652	7.861	1.00	11.35	6
ATOM	3489	CG	ASP A 430	35.704	12.175	7.893	1.00	12.16	6
ATOM	3490	COO1	ASP A 430	34.941	11.410	7.236	1.00	12.11	8
ATOM	3491	COO2	ASP A 430	36.676	11.784	8.551	1.00	10.98	8
ATOM	3492	C	ASP A 430	35.289	13.562	5.390	1.00	12.62	6
ATOM	3493	O	ASP A 430	36.452	13.961	5.293	1.00	12.99	8
ATOM	3494	H	GLY A 431	34.710	12.876	4.425	1.00	12.92	7
ATOM	3495	CA	GLY A 431	35.369	12.496	3.173	1.00	13.60	6
ATOM	3496	C	GLY A 431	34.447	12.693	1.981	1.00	13.93	6
ATOM	3497	O	GLY A 431	33.681	13.671	1.929	1.00	13.86	8
ATOM	3498	H	PRO A 432	34.509	11.820	0.999	1.00	14.36	7

ATOM	3499	CD	PRO A 432	35.409	10.665	0.884	1.00	14.46	6
ATOM	3500	CA	PRO A 432	33.653	11.935	-0.199	1.00	14.68	6
ATOM	3501	CB	PRO A 432	34.035	10.827	-1.190	1.00	14.46	6
ATOM	3502	CG	PRO A 432	35.224	10.168	-0.544	1.00	14.43	6
ATOM	3503	C	PRO A 432	32.163	11.902	0.220	1.00	14.96	6
ATOM	3504	O	PRO A 432	31.795	11.354	1.273	1.00	14.84	8
ATOM	3505	H	GLY A 433	31.312	12.512	-0.641	1.00	15.15	7
ATOM	3506	CA	GLY A 433	29.882	12.569	-0.450	1.00	15.39	6
ATOM	3507	C	GLY A 433	29.192	11.254	-0.788	1.00	15.65	6
ATOM	3508	O	GLY A 433	29.814	10.259	-1.188	1.00	15.62	8
ATOM	3509	H	GLY A 434	27.885	11.213	-0.658	1.00	15.83	7
ATOM	3510	CA	GLY A 434	27.160	9.983	-0.950	1.00	15.94	6
ATOM	3511	C	GLY A 434	25.733	10.059	-0.444	1.00	15.96	6
ATOM	3512	O	GLY A 434	25.263	11.153	-0.176	1.00	16.25	8
ATOM	3513	H	ALA A 435	25.080	8.925	-0.297	1.00	15.72	7
ATOM	3514	CA	ALA A 435	23.722	8.872	0.128	1.00	15.72	6
ATOM	3515	CB	ALA A 435	23.470	7.942	1.309	1.00	15.68	6
ATOM	3516	C	ALA A 435	24.260	7.007	1.516	1.00	15.51	8
ATOM	3517	O	ALA A 436	22.366	8.252	2.019	1.00	15.52	7
ATOM	3518	H	LYS A 436	21.990	7.383	3.119	1.00	15.58	6
ATOM	3519	CA	LYS A 436	22.566	7.682	4.490	1.00	15.09	6
ATOM	3520	CB	LYS A 436	22.500	6.476	5.442	1.00	14.85	6
ATOM	3521	CG	LYS A 436	23.071	6.769	6.810	1.00	13.83	6
ATOM	3522	CD	LYS A 436	24.448	7.441	6.784	1.00	12.21	6
ATOM	3523	CE	LYS A 436	25.498	6.400	6.652	1.00	11.33	7
ATOM	3524	HZ	LYS A 436	20.447	7.396	3.179	1.00	15.62	6
ATOM	3525	C	LYS A 436	19.778	8.405	3.060	1.00	15.33	8
ATOM	3526	O	LYS A 436	19.931	6.177	3.314	1.00	15.95	7
ATOM	3527	H	ARG A 437	18.502	5.972	3.422	1.00	16.36	6
ATOM	3528	CA	ARG A 437	17.965	4.624	2.977	1.00	23.29	6
ATOM	3529	CB	ARG A 437	17.573	4.499	1.510	1.00	29.80	6
ATOM	3530	CG	ARG A 437	16.656	3.293	1.407	1.00	35.68	6
ATOM	3531	CD	ARG A 437	15.201	3.525	1.319	1.00	40.60	7
ATOM	3532	HE	ARG A 437	14.309	2.734	1.964	1.00	42.03	6
ATOM	3533	CZ	ARG A 437	14.735	1.740	2.755	1.00	42.08	7
ATOM	3534	HN1	ARG A 437	13.005	2.950	1.814	1.00	42.49	7
ATOM	3535	HN2	ARG A 437	18.202	6.050	4.911	1.00	15.94	6
ATOM	3536	C	ARG A 437	18.833	5.318	5.678	1.00	15.62	8
ATOM	3537	O	ARG A 437	17.303	6.932	5.265	1.00	15.86	7
ATOM	3538	H	HET A 438	17.019	7.059	6.722	1.00	16.35	6
ATOM	3539	CA	HET A 438	17.846	8.236	7.242	1.00	15.99	6
ATOM	3540	CB	HET A 438	19.360	8.200	7.266	1.00	15.99	6
ATOM	3541	CG	HET A 438	20.172	9.634	7.987	1.00	16.66	16
ATOM	3542	SD	HET A 438	19.698	10.989	6.970	1.00	14.67	6
ATOM	3543	CE	HET A 438	15.525	7.205	6.983	1.00	15.63	6
ATOM	3544	C	HET A 438	14.774	7.662	6.105	1.00	15.49	8
ATOM	3545	H	TYR A 439	15.065	6.827	8.145	1.00	15.53	7
ATOM	3546	CA	TYR A 439	13.699	5.632	9.498	1.00	15.72	6
ATOM	3547	CB	TYR A 439	12.110	5.576	10.071	1.00	16.56	6
ATOM	3548	CG	TYR A 439	11.044	5.338	9.188	1.00	17.21	6
ATOM	3549	CD	TYR A 439	9.728	5.283	9.611	1.00	17.34	6
ATOM	3550	CE1	TYR A 439						
ATOM	3551								
ATOM	3552	CD2	TYR A 439	11.815	5.768	11.397	1.00	16.76	6
ATOM	3553	CE2	TYR A 439	10.514	5.667	11.875	1.00	17.07	6
ATOM	3554	CZ	TYR A 439	9.490	5.433	10.974	1.00	17.36	6
ATOM	3555	OH	TYR A 439	8.184	5.345	11.408	1.00	17.36	8
ATOM	3556	C	TYR A 439	13.404	8.144	9.357	1.00	15.81	6
ATOM	3557	C	TYR A 439	13.994	8.512	10.382	1.00	15.50	8
ATOM	3558	H	VAL A 440	12.407	8.831	8.856	1.00	16.08	7
ATOM	3559	CA	VAL A 440	11.897	10.144	9.350	1.00	16.61	6
ATOM	3560	CB	VAL A 440	11.999	10.905	7.980	1.00	16.77	6
ATOM	3561	CG1	VAL A 440	10.764	11.601	7.561	1.00	17.08	6
ATOM	3562	CG2	VAL A 440	13.263	11.754	8.026	1.00	15.70	6
ATOM	3563	C	VAL A 440	10.554	10.106	10.031	1.00	17.07	6
ATOM	3564	O	VAL A 440	10.014	11.040	10.625	1.00	16.85	8
ATOM	3565	H	GLY A 441	9.900	8.915	9.995	1.00	17.47	7
ATOM	3566	CA	GLY A 441	8.607	8.729	10.597	1.00	18.13	6
ATOM	3567	C	GLY A 441	7.583	8.699	9.476	1.00	18.60	8
ATOM	3568	O	GLY A 441	7.616	9.450	8.514	1.00	18.47	6
ATOM	3569	H	ARG A 442	6.636	7.793	9.673	1.00	19.21	7
ATOM	3570	CA	ARG A 442	5.540	7.559	8.739	1.00	19.79	6
ATOM	3571	CB	ARG A 442	4.804	6.264	9.145	1.00	27.13	6
ATOM	3572	CG	ARG A 442	3.910	5.788	8.008	1.00	34.25	6
ATOM	3573	CD	ARG A 442	3.727	4.252	7.911	1.00	40.05	6
ATOM	3574	HE	ARG A 442	3.027	3.900	6.634	1.00	44.01	7
ATOM	3575	CZ	ARG A 442	1.896	3.329	6.388	1.00	46.30	6
ATOM	3576	HN1	ARG A 442	1.175	2.772	7.381	1.00	47.10	7
ATOM	3577	HN2	ARG A 442	1.446	3.253	5.119	1.00	46.98	7
ATOM	3578	C	ARG A 442	4.586	8.725	8.657	1.00	19.53	6
ATOM	3579	O	ARG A 442	3.955	9.003	7.621	1.00	19.67	8
ATOM	3580	H	GLN A 443	4.479	9.544	9.684	1.00	19.05	7
ATOM	3581	CA	GLN A 443	3.607	10.709	9.658	1.00	18.69	6
ATOM	3582	CB	GLN A 443	3.431	11.246	11.093	1.00	21.29	6
ATOM	3583	CG	GLN A 443	4.808	11.675	11.634	1.00	23.26	6
ATOM	3584	CD	GLN A 443	5.581	10.603	12.390	1.00	24.64	6
ATOM	3585	OE1	GLN A 443	5.631	9.402	12.134	1.00	24.10	8
ATOM	3586	NE2	GLN A 443	6.316	11.066	13.438	1.00	25.50	7
ATOM	3587	C	GLN A 443	4.115	11.806	8.734	1.00	18.06	6
ATOM	3588	O	GLN A 443	3.414	12.798	8.501	1.00	17.90	8
ATOM	3589	H	ASH A 444	5.307	11.714	8.193	1.00	17.51	7
ATOM	3590	CA	ASH A 444	5.897	12.636	7.253	1.00	16.84	6
ATOM	3591	CB	ASH A 444	7.400	12.828	7.563	1.00	14.89	6
ATOM	3592	CG	ASH A 444	7.497	13.458	8.951	1.00	15.66	6
ATOM	3593	CD	ASH A 444	6.765	14.374	9.269	1.00	13.70	8
ATOM	3594	ND2	ASH A 444	8.368	12.974	9.818	1.00	15.53	7
ATOM	3595	C	ASH A 444	5.814	12.078	5.820	1.00	16.45	6
ATOM	3596	O	ASH A 444	6.396	12.716	4.943	1.00	16.24	8
ATOM	3597	H	ALA A 445	5.196	10.917	5.640	1.00	16.01	7
ATOM	3598	CA	ALA A 445	5.075	10.268	4.345	1.00	16.03	6
ATOM	3599	CB	ALA A 445	4.109	9.075	4.403	1.00	15.55	6
ATOM	3600	C	ALA A 445	4.572	11.159	3.208	1.00	15.90	6
ATOM	3601	O	ALA A 445	3.624	11.896	3.441	1.00	15.97	8
ATOM	3602	H	GLY A 446	5.165	11.130	2.010	1.00	15.77	7
ATOM	3603	CA	GLY A 446	4.752	11.944	0.885	1.00	15.36	6
ATOM	3604	C	GLY A 446	5.207	13.378	0.863	1.00	15.20	6

ATOM	3605	O	GLY A 446	4.924	14.124	-0.086	1.00	15.33	8
ATOM	3606	H	GLU A 447	5.963	13.897	1.827	1.00	14.73	7
ATOM	3607	H	GLU A 447	6.387	15.280	1.807	1.00	14.28	6
ATOM	3608	CB	GLU A 447	6.706	15.729	3.264	1.00	14.39	6
ATOM	3609	CG	GLU A 447	5.389	15.838	4.018	1.00	13.77	6
ATOM	3610	CD	GLU A 447	5.715	15.992	5.455	1.00	15.49	6
ATOM	3611	OE1	GLU A 447	6.875	16.135	5.959	1.00	15.55	8
ATOM	3612	OE2	GLU A 447	4.721	16.000	6.203	1.00	15.31	8
ATOM	3613	C	GLU A 447	7.644	15.680	1.041	1.00	13.72	6
ATOM	3614	O	GLU A 447	8.494	14.838	0.929	1.00	13.70	8
ATOM	3615	H	THR A 448	7.703	16.924	0.604	1.00	13.28	7
ATOM	3616	CA	THR A 448	8.904	17.386	-0.059	1.00	13.29	6
ATOM	3617	CB	THR A 448	8.681	18.432	-1.179	1.00	14.50	6
ATOM	3618	CG1	THR A 448	7.898	17.829	-2.231	1.00	16.23	8
ATOM	3619	CG2	THR A 448	9.966	18.972	-1.787	1.00	12.12	6
ATOM	3620	C	THR A 448	9.826	18.047	0.994	1.00	12.85	6
ATOM	3621	O	THR A 448	9.440	19.036	1.627	1.00	12.61	8
ATOM	3622	H	TRP A 449	11.021	17.500	1.176	1.00	12.53	7
ATOM	3623	CA	TRP A 449	12.011	18.069	2.095	1.00	12.56	6
ATOM	3624	CB	TRP A 449	12.564	16.992	3.035	1.00	9.67	6
ATOM	3625	CG	TRP A 449	11.619	16.660	4.133	1.00	9.33	6
ATOM	3626	CD	TRP A 449	11.959	16.118	5.402	1.00	8.65	6
ATOM	3627	CE1	TRP A 449	10.762	15.974	6.129	1.00	9.46	6
ATOM	3628	CE2	TRP A 449	13.161	15.756	6.000	1.00	9.00	6
ATOM	3629	CE3	TRP A 449	10.237	16.787	4.154	1.00	9.60	6
ATOM	3630	HE1	TRP A 449	9.710	16.414	5.351	1.00	9.39	7
ATOM	3631	HE2	TRP A 449	10.730	15.465	7.438	1.00	9.93	6
ATOM	3632	CH1	TRP A 449	13.135	15.216	7.286	1.00	8.43	6
ATOM	3633	CH2	TRP A 449	11.953	15.068	7.958	1.00	12.82	6
ATOM	3634	C	TRP A 449	13.168	18.721	1.320	1.00	12.56	8
ATOM	3635	O	TRP A 449	13.563	18.178	0.275	1.00	13.04	7
ATOM	3636	H	HIS A 450	13.727	19.836	1.779	1.00	13.34	6
ATOM	3637	CA	HIS A 450	14.852	20.452	1.046	1.00	14.62	6
ATOM	3638	CB	HIS A 450	14.296	21.682	0.331	1.00	17.87	6
ATOM	3639	CG	HIS A 450	14.289	22.883	1.191	1.00	19.94	6
ATOM	3640	CD	HIS A 450	14.886	24.101	1.061	1.00	20.15	7
ATOM	3641	NO1	HIS A 450	13.580	22.945	2.378	1.00	20.15	7
ATOM	3642	CE1	HIS A 450	13.725	24.121	2.973	1.00	20.37	6
ATOM	3643	HE1	HIS A 450	14.513	24.848	2.189	1.00	21.15	7
ATOM	3644	C	HIS A 450	16.040	20.732	1.990	1.00	13.31	6
ATOM	3645	O	HIS A 450	15.781	20.891	3.188	1.00	13.10	8
ATOM	3646	H	ASP A 451	17.301	20.807	1.520	1.00	13.09	7
ATOM	3647	CA	ASP A 451	18.454	21.055	2.375	1.00	12.90	6
ATOM	3648	CB	ASP A 451	19.697	20.740	1.535	1.00	10.89	6
ATOM	3649	CG	ASP A 451	21.008	21.054	2.191	1.00	10.97	6
ATOM	3650	NO1	ASP A 451	20.976	21.407	3.391	1.00	9.94	8
ATOM	3651	OE1	ASP A 451	22.111	20.978	1.592	1.00	11.53	8
ATOM	3652	C	ASP A 451	18.403	22.477	2.886	1.00	13.21	6
ATOM	3653	O	ASP A 451	18.643	23.419	2.089	1.00	13.23	8
ATOM	3654	H	ILE A 452	18.095	22.816	4.131	1.00	13.24	7
ATOM	3655	CA	ILE A 452	18.064	24.235	4.561	1.00	13.53	6
ATOM	3656	CB	ILE A 452	17.466	24.250	5.994	1.00	13.03	6
ATOM	3657	CG2	ILE A 452	18.495	23.677	6.964	1.00	11.72	6
ATOM	3658	CG1	ILE A 452	17.009	25.640	6.443	1.00	14.27	6
ATOM	3659	CD1	ILE A 452	16.275	25.551	7.802	1.00	14.37	6
ATOM	3660	C	ILE A 452	19.424	24.911	4.512	1.00	13.90	6
ATOM	3661	O	ILE A 452	19.482	26.146	4.529	1.00	13.78	8
ATOM	3662	N	THR A 453	20.598	24.254	4.476	1.00	14.31	7
ATOM	3663	CA	THR A 453	21.885	24.911	4.427	1.00	14.90	6
ATOM	3664	CB	THR A 453	23.063	23.977	4.697	1.00	12.74	6
ATOM	3665	CG1	THR A 453	23.194	23.019	3.614	1.00	12.38	8
ATOM	3666	CG2	THR A 453	22.905	23.215	6.001	1.00	12.32	6
ATOM	3667	C	THR A 453	22.184	25.480	3.030	1.00	15.80	6
ATOM	3668	O	THR A 453	23.073	26.280	2.774	1.00	15.75	8
ATOM	3669	H	GLY A 454	21.475	24.968	2.016	1.00	16.49	7
ATOM	3670	CA	GLY A 454	21.614	25.345	0.622	1.00	16.88	6
ATOM	3671	C	GLY A 454	22.752	24.598	-0.055	1.00	17.42	6
ATOM	3672	O	GLY A 454	22.967	24.858	-1.237	1.00	17.55	8
ATOM	3673	N	ASN A 455	23.496	23.700	0.568	1.00	17.75	7
ATOM	3674	CA	ASN A 455	24.590	22.992	-0.090	1.00	18.19	6
ATOM	3675	CB	ASN A 455	25.375	22.188	0.928	1.00	17.61	6
ATOM	3676	CG	ASN A 455	26.145	23.158	1.831	1.00	19.02	6
ATOM	3677	HD1	ASN A 455	26.584	24.193	1.296	1.00	20.84	8
ATOM	3678	HD2	ASN A 455	26.283	22.827	3.103	1.00	17.34	7
ATOM	3679	C	ASN A 455	24.050	22.108	-1.217	1.00	18.75	6
ATOM	3680	O	ASN A 455	24.847	21.968	-2.160	1.00	18.87	8
ATOM	3681	N	ARG A 456	22.843	21.544	-1.115	1.00	18.85	7
ATOM	3682	CA	ARG A 456	22.300	20.763	-2.215	1.00	19.42	6
ATOM	3683	CB	ARG A 456	22.051	19.313	-1.853	1.00	21.00	6
ATOM	3684	CG	ARG A 456	23.405	18.670	-1.612	1.00	22.06	6
ATOM	3685	CD	ARG A 456	23.079	17.230	-1.408	1.00	24.47	6
ATOM	3686	NE	ARG A 456	22.752	16.607	-2.676	1.00	27.86	7
ATOM	3687	CZ	ARG A 456	23.472	16.017	-3.613	1.00	29.09	6
ATOM	3688	NH1	ARG A 456	22.809	15.484	-4.631	1.00	29.42	7
ATOM	3689	NH2	ARG A 456	24.789	15.821	-3.652	1.00	30.25	7
ATOM	3690	C	ARG A 456	20.994	21.388	-2.721	1.00	19.69	6
ATOM	3691	O	ARG A 456	20.182	21.809	-1.881	1.00	19.86	8
ATOM	3692	N	SER A 457	20.777	21.515	-4.032	1.00	19.78	7
ATOM	3693	CA	SER A 457	19.533	22.134	-4.501	1.00	19.97	6
ATOM	3694	CB	SER A 457	19.748	23.040	-5.741	1.00	20.18	6
ATOM	3695	CG	SER A 457	20.301	22.068	-6.668	1.00	20.86	8
ATOM	3696	C	SER A 457	18.439	21.136	-4.883	1.00	19.94	8
ATOM	3697	O	SER A 457	17.317	21.592	-5.183	1.00	20.17	8
ATOM	3698	H	GLU A 458	18.708	19.841	-4.835	1.00	19.72	7
ATOM	3699	CA	GLU A 458	17.687	18.883	-5.161	1.00	19.82	6
ATOM	3700	CB	GLU A 458	18.321	17.611	-5.803	1.00	24.71	6
ATOM	3701	CG	GLU A 458	17.134	17.001	-6.543	1.00	31.90	6
ATOM	3702	CD	GLU A 458	17.152	15.635	-7.160	1.00	36.18	6
ATOM	3703	OE1	GLU A 458	18.250	15.229	-7.681	1.00	38.60	8
ATOM	3704	OE2	GLU A 458	16.057	14.979	-7.142	1.00	38.01	8
ATOM	3705	C	GLU A 458	16.850	18.407	-3.978	1.00	19.28	6
ATOM	3706	O	GLU A 458	17.375	17.778	-3.068	1.00	19.23	8
ATOM	3707	N	PRO A 459	15.545	18.628	-4.028	1.00	18.75	7
ATOM	3708	CD	PRO A 459	14.893	19.401	-5.083	1.00	18.49	6
ATOM	3709	CA	PRO A 459	14.611	18.231	-2.974	1.00	18.56	6
ATOM	3710	CB	PRO A 459	13.270	18.916	-3.298	1.00	18.40	6

ATOM	3817	O	VAL A 472	27.246	14.169	-0.462	1.00	14.29	8
ATOM	3818	H	ASH A 473	27.200	16.444	-0.101	1.00	13.78	7
ATOM	3819	CA	ASH A 473	28.404	16.662	-0.901	1.00	13.30	6
ATOM	3820	CB	ASH A 473	28.514	18.108	-1.339	1.00	13.44	6
ATOM	3821	CG	ASH A 473	27.403	18.519	-2.301	1.00	15.11	6
ATOM	3822	OO1	ASH A 473	26.781	17.637	-2.882	1.00	15.07	8
ATOM	3823	NO2	ASH A 473	27.148	19.805	-2.494	1.00	15.52	7
ATOM	3824	C	ASH A 473	29.633	16.278	-0.086	1.00	12.99	6
ATOM	3825	O	ASH A 473	29.567	16.164	1.139	1.00	12.88	8
ATOM	3826	H	GLY A 474	30.792	16.046	-0.723	1.00	12.57	7
ATOM	3827	CA	GLY A 474	32.004	15.690	0.026	1.00	11.90	6
ATOM	3828	C	GLY A 474	32.429	16.874	0.897	1.00	11.47	6
ATOM	3829	O	GLY A 474	32.305	18.054	0.524	1.00	11.68	8
ATOM	3830	H	GLY A 475	32.940	16.534	2.058	1.00	10.93	7
ATOM	3831	CA	GLY A 475	33.425	17.392	3.139	1.00	10.37	6
ATOM	3832	C	GLY A 475	32.350	18.425	3.486	1.00	10.04	6
ATOM	3833	O	GLY A 475	32.646	19.606	3.607	1.00	9.82	8
ATOM	3834	H	SER A 476	31.076	17.953	3.556	1.00	9.71	7
ATOM	3835	CA	SER A 476	29.967	18.862	3.748	1.00	9.25	6
ATOM	3836	CB	SER A 476	29.330	19.038	2.348	1.00	10.16	6
ATOM	3837	OG	SER A 476	28.487	20.170	2.237	1.00	11.03	8
ATOM	3838	C	SER A 476	28.910	18.374	4.718	1.00	8.87	6
ATOM	3839	O	SER A 476	28.982	17.301	5.311	1.00	8.60	8
ATOM	3840	H	VAL A 477	27.865	19.207	4.864	1.00	8.73	7
ATOM	3841	CA	VAL A 477	26.711	18.975	5.699	1.00	8.94	6
ATOM	3842	CB	VAL A 477	26.705	19.802	7.028	1.00	6.92	6
ATOM	3843	CG1	VAL A 477	26.953	21.281	6.811	1.00	5.00	6
ATOM	3844	CG2	VAL A 477	25.389	19.640	7.754	1.00	5.67	6
ATOM	3845	C	VAL A 477	25.462	19.333	4.887	1.00	8.35	8
ATOM	3846	O	VAL A 477	24.403	18.567	4.139	1.00	8.26	8
ATOM	3847	H	SER A 478	23.087	18.761	4.462	1.00	8.36	6
ATOM	3848	CA	SER A 478	22.792	17.840	3.254	1.00	8.85	8
ATOM	3849	CB	SER A 478	23.251	18.520	2.073	1.00	11.98	8
ATOM	3850	OG	SER A 478	22.074	18.493	5.574	1.00	8.16	6
ATOM	3851	C	SER A 478	22.181	17.527	6.326	1.00	7.79	8
ATOM	3852	O	SER A 478	21.114	19.406	5.720	1.00	8.43	7
ATOM	3853	H	ILE A 479	20.039	19.323	6.693	1.00	8.49	6
ATOM	3854	CA	ILE A 479	20.160	20.274	7.884	1.00	8.78	6
ATOM	3855	CB	ILE A 479	18.976	19.999	8.846	1.00	6.48	6
ATOM	3856	CG2	ILE A 479	21.502	20.102	8.647	1.00	8.82	6
ATOM	3857	CG1	ILE A 479	21.914	21.342	9.399	1.00	7.53	6
ATOM	3858	CD1	ILE A 479	18.689	19.539	6.015	1.00	8.75	6
ATOM	3859	C	ILE A 479	18.346	20.671	5.734	1.00	8.74	8
ATOM	3860	O	ILE A 479	17.969	18.447	5.791	1.00	9.32	7
ATOM	3861	H	TYR A 480	16.682	18.457	5.141	1.00	10.04	6
ATOM	3862	CA	TYR A 480	16.431	17.093	4.465	1.00	10.47	6
ATOM	3863	CB	TYR A 480	17.358	16.901	3.299	1.00	11.51	6
ATOM	3864	CG	TYR A 480	17.620	16.314	3.605	1.00	12.53	6
ATOM	3865	CE1	TYR A 480	19.531	16.102	2.589	1.00	12.53	6
ATOM	3866	CE2	TYR A 480	17.080	17.306	2.001	1.00	11.63	6
ATOM	3867	CD2	TYR A 480	17.988	17.112	0.996	1.00	12.21	6
ATOM	3868	CE2	TYR A 480	19.177	16.496	1.294	1.00	12.89	6
ATOM	3869	CZ	TYR A 480						
ATOM	3870	OII	TYR A 480						
ATOM	3871	C	TYR A 480						
ATOM	3872	O	TYR A 480						
ATOM	3873	N	VAL A 481						
ATOM	3874	CA	VAL A 481						
ATOM	3875	CB	VAL A 481						
ATOM	3876	CG1	VAL A 481						
ATOM	3877	CG2	VAL A 481						
ATOM	3878	C	VAL A 481						
ATOM	3879	O	VAL A 481						
ATOM	3880	H	GLN A 482						
ATOM	3881	CA	GLN A 482						
ATOM	3882	CB	GLN A 482						
ATOM	3883	CG	GLN A 482						
ATOM	3884	CD	GLN A 482						
ATOM	3885	OE1	GLN A 482						
ATOM	3886	NE2	GLN A 482						
ATOM	3887	C	GLN A 482						
ATOM	3888	O	GLN A 482						
ATOM	3889	CA	ARG A 483						
ATOM	3890	CB	ARG A 483						
ATOM	3891	CG	ARG A 483						
ATOM	3892	CG	ARG A 483						
ATOM	3893	CG	ARG A 483						
ATOM	3894	NE	ARG A 483						
ATOM	3895	CZ	ARG A 483						
ATOM	3896	NIH1	ARG A 483						
ATOM	3897	NIH2	ARG A 483						
ATOM	3898	C	ARG A 483						
ATOM	3899	O	ARG A 483						
ATOM	3900	OT	ARG A 483						
ATOM	3901	CA	IUM \$ 501						
ATOM	3902	CA	IUM \$ 502						
ATOM	3903	CA	IUM \$ 503						
ATOM	3904	CA	IUM \$ 504						
ATOM	3905	OH1	WAT X 1						
ATOM	3906	OH2	WAT X 1						
ATOM	3907	OH3	WAT X 1						
ATOM	3908	OH4	WAT X 1						
ATOM	3909	OH5	WAT X 1						
ATOM	3910	OH6	WAT X 1						
ATOM	3911	OH7	WAT X 1						
ATOM	3912	OH8	WAT X 1						
ATOM	3913	OH9	WAT X 1						
ATOM	3914	OH0	WAT X 2						
ATOM	3915	OH1	WAT X 2						
ATOM	3916	OH2	WAT X 2						
ATOM	3917	OH3	WAT X 2						
ATOM	3918	OH4	WAT X 2						
ATOM	3919	OH5	WAT X 2						
ATOM	3920	OH6	WAT X 2						
ATOM	3921	OH7	WAT X 2						
ATOM	3922	OH8	WAT X 2						

ATOM	3923	OH9	WAT	X	2	42.991	28.597	56.879	1.00	19.54	8
ATOM	3924	OH0	WAT	X	3	42.416	33.909	17.726	1.00	10.85	8
ATOM	3925	OH1	WAT	X	3	48.842	22.953	44.340	1.00	7.46	8
ATOM	3926	OH2	WAT	X	3	36.038	55.628	43.083	1.00	10.34	8
ATOM	3927	OH3	WAT	X	3	58.570	25.578	42.683	1.00	12.51	8
ATOM	3928	OH4	WAT	X	3	35.732	43.524	49.882	1.00	5.95	8
ATOM	3929	OH5	WAT	X	3	26.190	18.692	1.154	1.00	12.57	8
ATOM	3930	OH6	WAT	X	3	40.723	25.525	46.044	1.00	10.44	8
ATOM	3931	OH7	WAT	X	3	41.640	28.398	45.135	1.00	5.00	8
ATOM	3932	OH8	WAT	X	3	36.546	42.416	33.352	1.00	5.00	8
ATOM	3933	OH9	WAT	X	3	40.987	21.110	52.091	1.00	20.54	8
ATOM	3934	OH0	WAT	X	4	37.695	27.410	12.493	1.00	11.34	8
ATOM	3935	OH1	WAT	X	4	22.844	23.707	36.872	1.00	9.80	8
ATOM	3936	OH2	WAT	X	4	36.012	18.648	48.284	1.00	17.35	8
ATOM	3937	OH3	WAT	X	4	31.899	45.870	33.523	1.00	10.56	8
ATOM	3938	OH4	WAT	X	4	30.501	38.096	33.954	1.00	11.67	8
ATOM	3939	OH5	WAT	X	4	22.073	12.907	32.231	1.00	10.97	8
ATOM	3940	OH6	WAT	X	4	40.488	14.451	42.396	1.00	12.74	8
ATOM	3941	OH7	WAT	X	4	53.405	37.236	44.839	1.00	12.00	8
ATOM	3942	OH8	WAT	X	4	43.396	20.817	52.968	1.00	25.21	8
ATOM	3943	OH9	WAT	X	4	45.712	34.753	17.330	1.00	22.47	8
ATOM	3944	OH0	WAT	X	5	52.299	25.204	54.738	1.00	18.85	8
ATOM	3945	OH1	WAT	X	5	10.464	19.211	8.671	1.00	8.04	8
ATOM	3946	OH2	WAT	X	5	23.407	21.100	30.729	1.00	15.19	8
ATOM	3947	OH3	WAT	X	5	34.672	39.007	47.914	1.00	25.93	8
ATOM	3948	OH4	WAT	X	5	43.200	24.513	6.213	1.00	20.60	8
ATOM	3949	OH5	WAT	X	5	43.407	54.381	40.149	1.00	25.71	8
ATOM	3950	OH6	WAT	X	5	29.887	49.393	26.775	1.00	10.08	8
ATOM	3951	OH7	WAT	X	5	18.296	28.320	27.646	1.00	17.61	8
ATOM	3952	OH8	WAT	X	5	42.657	37.701	31.679	1.00	16.67	8
ATOM	3953	OH9	WAT	X	5	43.242	40.411	24.206	1.00	19.05	8
ATOM	3954	OH0	WAT	X	6	27.361	18.395	39.419	1.00	14.74	8
ATOM	3955	OH1	WAT	X	6	28.339	52.900	35.976	1.00	18.51	8
ATOM	3956	OH2	WAT	X	6	37.756	14.989	39.100	1.00	17.01	8
ATOM	3957	OH3	WAT	X	6	22.840	21.238	35.474	1.00	13.60	8
ATOM	3958	OH4	WAT	X	6	38.940	13.232	9.026	1.00	11.51	8
ATOM	3959	OH5	WAT	X	6	25.342	16.185	20.356	1.00	18.86	8
ATOM	3960	OH6	WAT	X	6	8.361	17.329	8.642	1.00	13.52	8
ATOM	3961	OH7	WAT	X	6	37.794	6.917	7.269	1.00	20.73	8
ATOM	3962	OH8	WAT	X	6	45.060	49.979	33.793	1.00	12.44	8
ATOM	3963	OH9	WAT	X	6	36.427	41.328	48.308	1.00	11.02	8
ATOM	3964	OH0	WAT	X	7	41.263	15.827	37.266	1.00	22.49	8
ATOM	3965	OH1	WAT	X	7	25.131	39.394	49.866	1.00	10.30	8
ATOM	3966	OH2	WAT	X	7	51.050	21.873	54.397	1.00	18.11	8
ATOM	3967	OH3	WAT	X	7	43.851	40.827	26.978	1.00	38.82	8
ATOM	3968	OH4	WAT	X	7	48.952	26.479	52.035	1.00	17.95	8
ATOM	3969	OH5	WAT	X	7	24.717	49.514	27.044	1.00	19.57	8
ATOM	3970	OH6	WAT	X	7	32.551	52.703	28.488	1.00	9.04	8
ATOM	3971	OH7	WAT	X	7	44.885	26.009	54.445	1.00	7.24	8
ATOM	3972	OH8	WAT	X	7	38.325	36.644	45.393	1.00	19.65	8
ATOM	3973	OH9	WAT	X	7	21.609	12.965	20.907	1.00	9.32	8
ATOM	3974	OH0	WAT	X	8	24.711	13.545	20.784	1.00	23.06	8
ATOM	3975	OH1	WAT	X	8	42.374	43.789	25.824	1.00	28.85	8
ATOM	3976	OH2	WAT	X	8	18.586	45.140	20.306	1.00	24.89	8
ATOM	3977	OH3	WAT	X	8	40.969	25.117	33.960	1.00	19.79	8
ATOM	3978	OH4	WAT	X	8	20.088	43.470	17.087	1.00	16.72	8
ATOM	3979	OH5	WAT	X	8	38.467	37.011	11.354	1.00	25.51	8
ATOM	3980	OH6	WAT	X	8	13.729	9.292	-1.198	1.00	18.29	8
ATOM	3981	OH7	WAT	X	8	37.082	34.587	46.550	1.00	20.44	8
ATOM	3982	OH8	WAT	X	8	33.674	26.739	26.941	1.00	37.20	8
ATOM	3983	OH9	WAT	X	8	44.040	39.609	29.378	1.00	15.09	8
ATOM	3984	OH0	WAT	X	9	5.980	17.940	10.956	1.00	15.78	8
ATOM	3985	OH1	WAT	X	9	37.928	39.774	25.743	1.00	20.89	8
ATOM	3986	OH2	WAT	X	9	30.894	54.048	35.873	1.00	15.39	8
ATOM	3987	OH3	WAT	X	9	28.071	34.048	54.110	1.00	17.12	8
ATOM	3988	OH4	WAT	X	9	18.742	28.715	32.238	1.00	16.32	8
ATOM	3989	OH5	WAT	X	9	21.957	31.164	51.343	1.00	17.53	8
ATOM	3990	OH6	WAT	X	9	17.533	31.407	37.350	1.00	18.05	8
ATOM	3991	OH7	WAT	X	9	33.329	26.312	6.343	1.00	16.49	8
ATOM	3992	OH8	WAT	X	9	52.348	36.456	42.429	1.00	22.51	8
ATOM	3993	OH9	WAT	X	9	33.954	32.866	59.563	1.00	24.70	8
ATOM	3994	OH0	WAT	X	10	20.209	19.419	22.073	1.00	15.65	8
ATOM	3995	OH1	WAT	X	10	32.236	16.522	47.616	1.00	20.65	8
ATOM	3996	OH2	WAT	X	10	38.512	27.238	32.842	1.00	17.87	8
ATOM	3997	OH3	WAT	X	10	29.117	21.774	-1.117	1.00	25.65	8
ATOM	3998	OH4	WAT	X	10	36.476	40.547	18.282	1.00	25.86	8
ATOM	3999	OH5	WAT	X	10	18.917	5.144	16.972	1.00	16.17	8
ATOM	4000	OH6	WAT	X	10	23.106	43.383	45.060	1.00	22.47	8
ATOM	4001	OH7	WAT	X	10	27.983	24.700	5.027	1.00	20.60	8
ATOM	4002	OH8	WAT	X	10	34.986	39.869	15.784	1.00	23.70	8
ATOM	4003	OH9	WAT	X	10	5.987	15.831	-1.902	1.00	32.41	8
ATOM	4004	OH0	WAT	X	11	19.643	16.427	-2.512	1.00	35.14	8
ATOM	4005	OH1	WAT	X	11	17.172	19.237	19.676	1.00	29.78	8
ATOM	4006	OH2	WAT	X	11	49.760	21.003	51.233	1.00	9.95	8
ATOM	4007	OH3	WAT	X	11	41.639	31.412	35.004	1.00	25.82	8
ATOM	4008	OH4	WAT	X	11	25.364	51.628	41.093	1.00	29.63	8
ATOM	4009	OH5	WAT	X	11	19.805	23.778	36.990	1.00	33.98	8
ATOM	4010	OH6	WAT	X	11	42.937	27.882	12.460	1.00	37.03	8
ATOM	4011	OH7	WAT	X	11	18.451	29.166	35.333	1.00	27.81	8
ATOM	4012	OH8	WAT	X	11	43.160	54.157	43.072	1.00	23.83	8
ATOM	4013	OH9	WAT	X	11	24.969	26.021	50.840	1.00	26.74	8
ATOM	4014	OH0	WAT	X	12	12.642	37.968	31.162	1.00	65.20	8
ATOM	4015	OH1	WAT	X	12	32.411	23.218	5.138	1.00	18.08	8
ATOM	4016	OH2	WAT	X	12	19.308	3.707	13.407	1.00	50.55	8
ATOM	4017	OH3	WAT	X	12	17.400	20.494	-1.396	1.00	25.22	8
ATOM	4018	OH4	WAT	X	12	38.504	40.778	36.668	1.00	40.52	8
ATOM	4019	OH5	WAT	X	12	46.693	16.740	48.249	1.00	22.77	8
ATOM	4020	OH6	WAT	X	12	44.237	51.654	41.807	1.00	30.69	8
ATOM	4021	OH7	WAT	X	12	29.593	23.052	4.777	1.00	24.15	8
ATOM	4022	OH8	WAT	X	12	25.325	25.894	6.415	1.00	23.43	8
ATOM	4023	OH9	WAT	X	12	37.028	10.496	27.680	1.00	13.65	8
ATOM	4024	OH0	WAT	X	13	15.428	33.267	21.245	1.00	27.08	8
ATOM	4025	OH1	WAT	X	13	32.665	39.080	54.672	1.00	21.60	8
ATOM	4026	OH2	WAT	X	13	46.251	40.891	31.602	1.00	25.79	8
ATOM	4027	OH3	WAT	X	13	38.486	30.224	30.783	1.00	20.87	8
ATOM	4028	OH4	WAT	X	13	42.551	46.583	21.900	1.00	28.42	8

ATOM	4029	045	WAT	X	13	13.009	12.182	-4.047	1.00	27.61	8
ATOM	4030	046	WAT	X	13	32.756	8.582	1.824	1.00	29.04	8
ATOM	4031	047	WAT	X	13	16.249	23.415	-2.919	1.00	36.05	8
ATOM	4032	048	WAT	X	13	36.916	46.802	51.068	1.00	13.92	8
ATOM	4033	049	WAT	X	13	51.456	45.867	53.043	1.00	27.25	8
ATOM	4034	040	WAT	X	14	44.576	23.979	15.915	1.00	39.18	8
ATOM	4035	041	WAT	X	14	16.344	4.264	16.031	1.00	22.00	8
ATOM	4036	042	WAT	X	14	32.347	13.546	-3.049	1.00	37.27	8
ATOM	4037	043	WAT	X	14	45.366	38.058	33.758	1.00	20.90	8
ATOM	4038	044	WAT	X	14	4.549	18.600	13.099	1.00	20.30	8
ATOM	4039	045	WAT	X	14	15.354	36.796	43.569	1.00	18.79	8
ATOM	4040	046	WAT	X	14	44.963	30.462	37.475	1.00	31.43	8
ATOM	4041	047	WAT	X	14	53.136	23.195	37.475	1.00	23.59	8
ATOM	4042	048	WAT	X	14	30.694	15.659	-3.842	1.00	37.98	8
ATOM	4043	049	WAT	X	14	39.010	7.257	14.525	1.00	37.98	8
ATOM	4044	040	WAT	X	15	37.498	55.360	32.899	1.00	35.84	8
ATOM	4045	041	WAT	X	15	21.133	44.448	35.481	1.00	35.84	8
ATOM	4046	042	WAT	X	15	23.993	4.153	14.519	1.00	20.07	8
ATOM	4047	043	WAT	X	15	21.568	23.231	44.662	1.00	34.60	8
ATOM	4048	044	WAT	X	15	9.185	24.466	6.708	1.00	19.79	8
ATOM	4049	045	WAT	X	15	44.586	35.812	31.349	1.00	48.30	8
ATOM	4050	046	WAT	X	15	30.789	25.745	52.371	1.00	38.63	8
ATOM	4051	047	WAT	X	15	41.284	38.972	11.403	1.00	29.22	8
ATOM	4052	048	WAT	X	15	56.979	36.187	58.016	1.00	37.19	8
ATOM	4053	049	WAT	X	15	25.886	5.827	3.524	1.00	21.64	8
ATOM	4054	040	WAT	X	16	41.689	14.341	39.346	1.00	28.91	8
ATOM	4055	041	WAT	X	16	20.238	10.905	31.899	1.00	29.69	8
ATOM	4056	042	WAT	X	16	44.542	44.756	52.978	1.00	18.03	8
ATOM	4057	043	WAT	X	16	57.377	17.228	51.604	1.00	20.62	8
ATOM	4058	044	WAT	X	16	53.851	33.580	56.957	1.00	22.46	8
ATOM	4059	045	WAT	X	16	35.776	25.007	52.963	1.00	30.96	8
ATOM	4060	046	WAT	X	16	50.697	26.378	37.894	1.00	17.69	8
ATOM	4061	047	WAT	X	16	35.244	16.237	47.346	1.00	35.92	8
ATOM	4062	048	WAT	X	16	41.297	31.972	30.043	1.00	23.15	8
ATOM	4063	049	WAT	X	16	60.104	21.780	53.887	1.00	24.69	8
ATOM	4064	040	WAT	X	17	33.930	36.911	56.317	1.00	28.54	8
ATOM	4065	041	WAT	X	17	27.783	49.620	50.985	1.00	42.93	8
ATOM	4066	042	WAT	X	17	38.322	12.309	23.483	1.00	25.91	8
ATOM	4067	043	WAT	X	17	19.759	16.587	26.896	1.00	45.44	8
ATOM	4068	044	WAT	X	17	18.392	24.561	-0.866	1.00	45.44	8
ATOM	4069	045	WAT	X	17	43.370	16.553	29.268	1.00	24.28	8
ATOM	4070	046	WAT	X	17	12.508	25.520	4.810	1.00	39.21	8
ATOM	4071	047	WAT	X	17	44.009	35.484	9.586	1.00	24.72	8
ATOM	4072	048	WAT	X	17	38.155	15.958	4.049	1.00	27.73	8
ATOM	4073	049	WAT	X	17	32.659	22.367	51.695	1.00	36.96	8
ATOM	4074	040	WAT	X	18	6.655	11.822	18.551	1.00	22.83	8
ATOM	4075	041	WAT	X	18	61.442	16.332	49.671	1.00	35.09	8
ATOM	4076	042	WAT	X	18	52.691	20.468	49.830	1.00	46.70	8
ATOM	4077	043	WAT	X	18	33.981	29.452	4.620	1.00	27.27	8
ATOM	4078	044	WAT	X	18	22.398	9.094	32.744	1.00	31.90	8
ATOM	4079	045	WAT	X	18	24.654	27.519	4.442	1.00	26.37	8
ATOM	4080	046	WAT	X	18	24.112	52.226	27.595	1.00	38.43	8
ATOM	4081	047	WAT	X	18	33.663	55.271	29.435	1.00	43.20	8
ATOM	4082	048	WAT	X	18						
ATOM	4083	049	WAT	X	18						
ATOM	4084	040	WAT	X	19						
ATOM	4085	041	WAT	X	19						
ATOM	4086	042	WAT	X	19						
ATOM	4087	043	WAT	X	19						
ATOM	4088	044	WAT	X	19						
ATOM	4089	045	WAT	X	19						
ATOM	4090	046	WAT	X	19						
ATOM	4091	047	WAT	X	19						
ATOM	4092	048	WAT	X	19						
ATOM	4093	049	WAT	X	19						
ATOM	4094	040	WAT	X	20						
ATOM	4095	041	WAT	X	20						
ATOM	4096	042	WAT	X	20						
ATOM	4097	043	WAT	X	20						
ATOM	4098	044	WAT	X	20						
ATOM	4099	045	WAT	X	20						
ATOM	4100	046	WAT	X	20						
ATOM	4101	047	WAT	X	20						
ATOM	4102	048	WAT	X	20						
ATOM	4103	049	WAT	X	20						
ATOM	4104	040	WAT	X	21						
ATOM	4105	041	WAT	X	21						
ATOM	4106	042	WAT	X	21						
ATOM	4107	043	WAT	X	21						
ATOM	4108	044	WAT	X	21						
ATOM	4109	045	WAT	X	21						
ATOM	4110	046	WAT	X	21						
ATOM	4111	047	WAT	X	21						
ATOM	4112	048	WAT	X	21						
ATOM	4113	049	WAT	X	21						
ATOM	4114	040	WAT	X	22						
ATOM	4115	041	WAT	X	22						
ATOM	4116	042	WAT	X	22						
ATOM	4117	043	WAT	X	22						
ATOM	4118	044	WAT	X	22						
ATOM	4119	045	WAT	X	22						
ATOM	4120	046	WAT	X	22						
ATOM	4121	047	WAT	X	22						
ATOM	4122	048	WAT	X	22						
ATOM	4123	049	WAT	X	22						
ATOM	4124	040	WAT	X	23						
ATOM	4125	041	WAT	X	23						
ATOM	4126	042	WAT	X	23						
ATOM	4127	043	WAT	X	23						
ATOM	4128	044	WAT	X	23						
ATOM	4129	045	WAT	X	23						
ATOM	4130	046	WAT	X	23						
ATOM	4131	047	WAT	X	23						
ATOM	4132	048	WAT	X	23						
ATOM	4133	049	WAT	X	23						
ATOM	4134	040	WAT	X	24						

ATOM	4135	OW1	WAT	X	24	26.342	44.842	18.030	1.00	27.39	8
ATOM	4136	OW2	WAT	X	24	42.233	42.967	22.516	1.00	28.16	8
ATOM	4137	OW3	WAT	X	24	17.859	41.857	40.950	1.00	44.87	8
ATOM	4138	OW4	WAT	X	24	18.774	45.302	34.094	1.00	36.85	8
ATOM	4139	OW5	WAT	X	24	17.379	48.385	29.218	1.00	36.40	8
ATOM	4140	OW6	WAT	X	24	59.859	17.628	38.947	1.00	24.00	8
ATOM	4141	OW7	WAT	X	24	44.716	26.845	15.361	1.00	31.66	8
ATOM	4142	OW8	WAT	X	24	16.851	22.367	25.144	1.00	38.33	8
ATOM	4143	OW9	WAT	X	24	44.428	18.344	31.454	1.00	28.87	8
ATOM	4144	OW0	WAT	X	25	53.824	36.690	57.769	1.00	27.33	8
ATOM	4145	OW1	WAT	X	25	53.688	40.328	57.339	1.00	34.91	8
ATOM	4146	OW2	WAT	X	25	46.373	15.118	12.832	1.00	38.80	8
ATOM	4147	OW3	WAT	X	25	29.409	35.711	7.581	1.00	30.09	8
ATOM	4148	OW4	WAT	X	25	26.515	13.237	-3.213	1.00	30.52	8
ATOM	4149	OW5	WAT	X	25	20.273	3.147	6.130	1.00	29.22	8
ATOM	4150	OW6	WAT	X	25	34.514	42.011	19.633	1.00	23.60	8
ATOM	4151	OW7	WAT	X	25	41.463	52.238	24.622	1.00	33.83	8
ATOM	4152	OW8	WAT	X	25	18.346	37.804	42.302	1.00	35.93	8
ATOM	4153	OW9	WAT	X	25	35.262	54.671	32.179	1.00	58.94	8
ATOM	4154	OW0	WAT	X	26	44.229	16.673	16.585	1.00	37.25	8
ATOM	4155	OW1	WAT	X	26	44.766	14.121	14.699	1.00	46.53	8
ATOM	4156	OW2	WAT	X	26	31.390	33.920	59.134	1.00	33.03	8
ATOM	4157	OW3	WAT	X	26	12.971	21.397	23.449	1.00	37.99	8
ATOM	4158	OW4	WAT	X	26	41.259	51.310	51.509	1.00	40.81	8
ATOM	4159	OW5	WAT	X	26	41.929	11.622	42.697	1.00	45.17	8
ATOM	4160	OW6	WAT	X	26	42.707	44.751	57.570	1.00	42.32	8
ATOM	4161	OW7	WAT	X	26	56.463	43.749	51.681	1.00	36.66	8
ATOM	4162	OW8	WAT	X	26	24.821	11.342	-3.728	1.00	33.27	8
ATOM	4163	OW9	WAT	X	26	60.493	39.175	53.713	1.00	47.98	8
ATOM	4164	OW0	WAT	X	27	45.625	38.306	11.910	1.00	75.50	8
ATOM	4165	OW1	WAT	X	27	43.801	49.874	24.898	1.00	34.01	8
ATOM	4166	OW2	WAT	X	27	11.684	17.068	21.179	1.00	42.07	8
ATOM	4167	OW3	WAT	X	27	28.216	2.149	14.807	1.00	33.10	8
ATOM	4168	OW4	WAT	X	27	52.604	30.867	37.880	1.00	47.45	8
ATOM	4169	OW5	WAT	X	27	55.458	34.651	38.180	1.00	33.89	8
ATOM	4170	OW6	WAT	X	27	49.808	19.847	34.189	1.00	62.88	8
ATOM	4171	OW7	WAT	X	27	1.703	6.632	4.199	1.00	28.38	8
ATOM	4172	OW8	WAT	X	27	48.275	39.555	43.586	1.00	61.62	8
ATOM	4173	OW9	WAT	X	27	23.075	20.226	-6.003	1.00	53.07	8
ATOM	4174	OW0	WAT	X	28	38.679	43.247	57.111	1.00	49.86	8
ATOM	4175	OW1	WAT	X	28	21.533	51.639	33.545	1.00	69.29	8
ATOM	4176	OW2	WAT	X	28	1.544	11.851	5.024	1.00	28.33	8
ATOM	4177	OW3	WAT	X	28	22.566	43.229	15.525	1.00	42.49	8
ATOM	4178	OW4	WAT	X	28	44.851	57.241	34.859	1.00	51.22	8
ATOM	4179	OW5	WAT	X	28	33.378	9.541	42.581	1.00	46.35	8
ATOM	4180	OW6	WAT	X	28	27.186	6.024	-0.021	1.00	56.59	8
ATOM	4181	OW7	WAT	X	28	56.162	41.254	59.120	1.00	20.05	8
ATOM	4182	OW8	WAT	X	28	5.756	19.201	7.132	1.00	35.67	8
ATOM	4183	OW9	WAT	X	28	14.700	29.886	48.605	1.00	42.13	8
ATOM	4184	OW0	WAT	X	29	24.084	56.275	32.373	1.00	40.12	8
ATOM	4185	OW1	WAT	X	29	29.979	22.421	2.045	1.00	42.88	8
ATOM	4186	OW2	WAT	X	29	18.885	13.752	26.566	1.00	49.31	8
ATOM	4187	OW3	WAT	X	29						8
ATOM	4188	OW4	WAT	X	29	33.246	35.860	58.555	1.00	24.66	8
ATOM	4189	OW5	WAT	X	29	20.518	10.712	22.033	1.00	31.01	8
ATOM	4190	OW6	WAT	X	29	28.355	41.870	50.614	1.00	38.09	8
ATOM	4191	OW7	WAT	X	29	51.144	33.741	38.200	1.00	28.11	8
ATOM	4192	OW8	WAT	X	29	50.909	32.604	61.158	1.00	44.30	8
ATOM	4193	OW9	WAT	X	29	45.397	9.987	33.816	1.00	41.23	8
ATOM	4194	OW0	WAT	X	30	45.383	21.851	32.647	1.00	34.24	8
ATOM	4195	OW1	WAT	X	30	51.981	22.543	34.910	1.00	43.50	8
ATOM	4196	OW2	WAT	X	30	35.294	58.821	39.452	1.00	34.28	8
ATOM	4197	OW3	WAT	X	30	34.193	44.616	18.067	1.00	42.78	8
ATOM	4198	OW4	WAT	X	30	31.695	52.889	53.190	1.00	54.83	8
ATOM	4199	OW5	WAT	X	30	13.657	44.210	31.115	1.00	42.94	8
ATOM	4200	OW6	WAT	X	30	17.493	40.635	13.227	1.00	54.30	8
ATOM	4201	OW7	WAT	X	30	24.521	11.373	22.566	1.00	67.82	8
ATOM	4202	OW8	WAT	X	30	37.671	38.607	58.700	1.00	56.80	8
ATOM	4203	OW9	WAT	X	30	8.539	26.332	10.421	1.00	56.81	8
ATOM	4204	OW0	WAT	X	31	49.681	16.792	34.456	1.00	41.62	8
ATOM	4205	OW1	WAT	X	31	7.284	6.777	13.925	1.00	32.48	8
ATOM	4206	OW2	WAT	X	31	19.842	44.869	37.796	1.00	31.63	8
ATOM	4207	OW3	WAT	X	31	16.806	43.159	34.050	1.00	46.41	8
ATOM	4208	OW4	WAT	X	31	40.080	55.247	29.931	1.00	55.22	8
ATOM	4209	OW5	WAT	X	31	4.298	25.496	15.931	1.00	31.66	8
ATOM	4210	OW6	WAT	X	31	49.649	40.424	40.847	1.00	40.80	8
ATOM	4211	OW7	WAT	X	31	22.128	29.127	52.419	1.00	38.09	8
ATOM	4212	OW8	WAT	X	31	16.243	33.605	36.184	1.00	31.92	8
ATOM	4213	OW9	WAT	X	31	27.033	55.215	28.323	1.00	32.22	8
ATOM	4214	OW0	WAT	X	32	16.931	37.637	36.501	1.00	37.40	8
ATOM	4215	OW1	WAT	X	32	7.050	10.305	16.890	1.00	56.52	8
ATOM	4216	OW2	WAT	X	32	50.382	29.410	35.312	1.00	31.50	8
ATOM	4217	OW3	WAT	X	32	27.086	47.626	17.616	1.00	45.87	8
ATOM	4218	OW4	WAT	X	32	50.029	47.652	42.125	1.00	53.90	8
ATOM	4219	OW5	WAT	X	32	29.154	55.495	24.292	1.00	46.22	8
ATOM	4220	OW6	WAT	X	32	32.970	58.606	36.552	1.00	59.17	8
ATOM	4221	OW7	WAT	X	32	43.201	24.152	56.971	1.00	45.99	8
ATOM	4222	OW8	WAT	X	32	41.947	30.732	9.284	1.00	44.69	8
ATOM	4223	OW9	WAT	X	32	21.381	14.261	36.815	1.00	37.06	8
ATOM	4224	OW0	WAT	X	33	60.941	22.089	43.042	1.00	68.99	8
ATOM	4225	OW1	WAT	X	33	40.505	56.155	42.947	1.00	35.06	8
ATOM	4226	OW2	WAT	X	33	18.578	37.434	47.553	1.00	32.40	8
ATOM	4227	OW3	WAT	X	33	31.707	48.490	18.182	1.00	41.44	8
ATOM	4228	OW4	WAT	X	33	20.611	21.237	38.626	1.00	57.12	8
ATOM	4229	OW5	WAT	X	33	38.037	8.708	21.690	1.00	57.07	8
ATOM	4230	OW6	WAT	X	33	18.925	37.694	11.766	1.00	40.38	8
ATOM	4231	OW7	WAT	X	33	53.097	28.032	37.987	1.00	42.46	8
ATOM	4232	OW8	WAT	X	33	63.148	36.349	37.733	1.00	37.92	8
ATOM	4233	OW9	WAT	X	34	14.116	36.171	21.843	1.00	10.16	8
ATOM	4234	OW0	WAT	X	34	22.608	32.412	5.553	1.00	38.61	8
ATOM	4235	OW1	WAT	X	34	29.443	3.779	16.367	1.00	43.05	8
ATOM	4236	OW2	WAT	X	34	41.862	17.565	7.880	1.00	56.34	8
ATOM	4237	OW3	WAT	X	34	44.558	18.412	8.333	1.00	27.76	8
ATOM	4238	OW4	WAT	X	34	51.913	26.058	58.542	1.00	47.20	8
ATOM	4239	OW5	WAT	X	34	64.063	33.656	56.634	1.00		8
ATOM	4240	OW6	WAT	X	34	34.660	53.702	52.276	1.00		8

ATOM	4241	0W8	WAT	X	34	5.844	14.713	12.911	1.00	40.12	8
ATOM	4242	0W9	WAT	X	34	39.697	54.257	50.395	1.00	36.68	8
ATOM	4243	0W0	WAT	X	35	18.706	24.537	40.234	1.00	51.89	8
ATOM	4244	0W1	WAT	X	35	20.209	21.570	34.426	1.00	34.23	8
ATOM	4245	0W2	WAT	X	35	44.584	17.646	26.801	1.00	35.48	8
ATOM	4246	0W3	WAT	X	35	61.438	32.246	57.799	1.00	36.05	8
ATOM	4247	0W4	WAT	X	35	13.266	6.166	0.033	1.00	49.60	8
ATOM	4248	0W5	WAT	X	35	42.142	53.175	26.887	1.00	43.15	8
ATOM	4249	0W6	WAT	X	35	33.505	54.214	55.522	1.00	56.63	8
ATOM	4250	0W7	WAT	X	35	1.397	8.422	6.873	1.00	48.68	8
ATOM	4251	0W8	WAT	X	35	47.778	11.907	38.953	1.00	34.48	8
ATOM	4252	0W9	WAT	X	35	15.856	27.767	43.603	1.00	55.40	8
ATOM	4253	0W0	WAT	X	36	38.734	7.626	16.829	1.00	43.46	8
ATOM	4254	0W1	WAT	X	36	10.578	1.626	2.281	1.00	40.52	8
ATOM	4255	0W2	WAT	X	36	50.000	33.901	35.051	1.00	49.14	8
ATOM	4256	0W3	WAT	X	36	44.622	34.879	33.356	1.00	60.84	8
ATOM	4257	0W4	WAT	X	36	3.016	16.327	21.655	1.00	60.04	8
ATOM	4258	0W5	WAT	X	36	41.431	56.503	45.767	1.00	56.22	8
ATOM	4259	0W6	WAT	X	36	49.548	26.337	22.216	1.00	53.09	8
ATOM	4260	0W7	WAT	X	36	37.549	29.346	4.956	1.00	52.92	8
ATOM	4261	0W8	WAT	X	36	49.240	44.486	55.149	1.00	38.00	8
ATOM	4262	0W9	WAT	X	36	53.734	18.532	52.401	1.00	51.95	8
ATOM	4263	0W0	WAT	X	37	39.041	11.166	25.898	1.00	36.59	8
ATOM	4264	0W1	WAT	X	37	10.532	4.916	16.271	1.00	58.74	8
ATOM	4265	0W2	WAT	X	37	41.346	7.373	32.768	1.00	44.27	8
ATOM	4266	0W3	WAT	X	37	32.474	41.914	15.484	1.00	44.04	8
ATOM	4267	0W4	WAT	X	37	18.592	28.534	17.648	1.00	41.36	8
ATOM	4268	0W5	WAT	X	37	58.677	25.814	40.128	1.00	40.22	8
ATOM	4269	0W6	WAT	X	37	15.547	6.537	19.083	1.00	45.33	8
ATOM	4270	0W7	WAT	X	37	37.675	57.053	47.412	1.00	49.86	8
ATOM	4271	0W8	WAT	X	37	49.434	37.594	42.185	1.00	42.38	8
ATOM	4272	0W9	WAT	X	37	42.690	28.862	30.545	1.00	48.41	8
ATOM	4273	0W0	WAT	X	38	29.822	6.331	24.708	1.00	43.26	8
ATOM	4274	0W1	WAT	X	38	43.889	32.981	31.239	1.00	36.08	8
ATOM	4275	0W2	WAT	X	38	16.119	10.852	-3.221	1.00	54.04	8
ATOM	4276	0W3	WAT	X	38	46.051	14.381	33.005	1.00	58.57	8
ATOM	4277	0W4	WAT	X	38	26.231	44.941	50.291	1.00	49.03	8
ATOM	4278	0W5	WAT	X	38	41.500	26.375	9.990	1.00	50.76	8
ATOM	4279	0W6	WAT	X	38	51.550	42.087	41.209	1.00	52.61	8
ATOM	4280	0W7	WAT	X	38	38.215	7.892	30.920	1.00	43.87	8
ATOM	4281	0W8	WAT	X	38	22.207	33.878	7.842	1.00	47.74	8
ATOM	4282	0W9	WAT	X	39	49.722	41.667	12.969	1.00	59.07	8
ATOM	4283	0W0	WAT	X	39	35.909	18.255	51.330	1.00	53.37	8
ATOM	4284	0W1	WAT	X	39	43.924	10.373	31.316	1.00	42.79	8
ATOM	4285	0W2	WAT	X	39	22.583	10.397	39.495	1.00	68.43	8
ATOM	4286	0W3	WAT	X	39	19.514	48.906	21.847	1.00	66.89	8
ATOM	4287	0W4	WAT	X	39	13.468	27.723	5.713	1.00	44.03	8
ATOM	4288	0W5	WAT	X	39	45.654	25.542	63.943	1.00	37.57	8
ATOM	4289	0W6	WAT	X	39	44.078	13.029	36.046	1.00	48.13	8
ATOM	4290	0W7	WAT	X	39	27.240	0.087	12.290	1.00	45.09	8
ATOM	4291	0W8	WAT	X	39	15.804	17.374	23.289	1.00	58.48	8
ATOM	4292	0W9	WAT	X	40	23.294	12.036	34.534	1.00	60.75	8
ATOM	4293	0W0	WAT	X	40	47.490	44.003	18.065	1.00	60.75	8
ATOM	4294	0W2	WAT	X	40	17.196	19.679	22.860	1.00	53.81	8
ATOM	4295	0W3	WAT	X	40	22.069	3.918	3.047	1.00	55.02	8
ATOM	4296	0W4	WAT	X	40	40.725	28.659	11.393	1.00	42.24	8
ATOM	4297	0W5	WAT	X	40	53.521	31.821	60.008	1.00	46.58	8
ATOM	4298	0W6	WAT	X	40	43.778	45.011	23.792	1.00	52.91	8
ATOM	4299	0W7	WAT	X	40	45.725	48.904	30.294	1.00	35.75	8
ATOM	4300	0W8	WAT	X	40	49.126	11.559	46.679	1.00	49.02	8
ATOM	4301	0W9	WAT	X	40	68.137	39.801	42.467	1.00	64.82	8
ATOM	4302	0W0	WAT	X	41	19.785	19.132	28.386	1.00	38.16	8
ATOM	4303	0W1	WAT	X	41	46.799	34.048	27.779	1.00	53.88	8
ATOM	4304	0W2	WAT	X	41	46.195	38.407	29.718	1.00	67.17	8
ATOM	4305	0W3	WAT	X	41	10.791	46.608	27.796	1.00	38.46	8
ATOM	4306	0W4	WAT	X	41	17.255	25.962	28.182	1.00	49.71	8
ATOM	4307	0W5	WAT	X	41	38.815	10.903	18.927	1.00	49.73	8
ATOM	4308	0W6	WAT	X	41	47.017	51.069	47.161	1.00	58.10	8
ATOM	4309	0W7	WAT	X	41	52.550	36.860	39.163	1.00	53.80	8
ATOM	4310	0W8	WAT	X	41	19.024	23.922	31.261	1.00	60.30	8
ATOM	4311	0W9	WAT	X	41	15.798	27.427	30.407	1.00	100.00	8
ATOM	4312	0W0	WAT	X	42	55.428	38.709	38.776	1.00	50.63	8
ATOM	4313	0W1	WAT	X	42	23.391	20.916	45.890	1.00	44.61	8
ATOM	4314	0W2	WAT	X	42	4.072	14.391	18.394	1.00	42.40	8
ATOM	4315	0W3	WAT	X	42	42.371	37.835	9.565	1.00	46.80	8
ATOM	4316	0W4	WAT	X	42	6.020	13.143	15.676	1.00	60.89	8
ATOM	4317	0W5	WAT	X	42	2.445	17.737	5.335	1.00	44.54	8
ATOM	4318	0W6	WAT	X	42	39.431	8.272	34.812	1.00	46.23	8
ATOM	4319	0W7	WAT	X	42	43.239	42.762	20.441	1.00	42.07	8
ATOM	4320	0W8	WAT	X	42	43.667	29.029	33.074	1.00	53.81	8
ATOM	4321	0W9	WAT	X	42	15.819	3.536	1.715	1.00	45.41	8
ATOM	4322	0W0	WAT	X	43	22.756	6.724	-4.904	1.00	44.46	8
ATOM	4323	0W1	WAT	X	43	32.918	47.694	61.485	1.00	67.38	8
ATOM	4324	0W2	WAT	X	43	32.074	40.098	11.945	1.00	34.37	8
ATOM	4325	0W3	WAT	X	43	44.790	41.553	18.449	1.00	44.94	8
ATOM	4326	0W4	WAT	X	43	15.058	29.090	20.720	1.00	49.25	8
ATOM	4327	0W5	WAT	X	43	24.069	18.351	48.150	1.00	62.06	8
ATOM	4328	0W6	WAT	X	43	40.835	26.920	30.843	1.00	49.68	8
ATOM	4329	0W7	WAT	X	43	7.082	2.097	8.379	1.00	47.50	8
ATOM	4330	0W8	WAT	X	43	47.039	51.990	40.775	1.00	51.23	8
ATOM	4331	0W9	WAT	X	43	22.252	13.968	43.293	1.00	38.13	8
ATOM	4332	0W0	WAT	X	44	25.106	31.488	52.711	1.00	57.06	8
ATOM	4333	0W1	WAT	X	44	23.054	7.691	28.407	1.00	52.15	8
ATOM	4334	0W2	WAT	X	44	21.526	1.631	11.156	1.00	53.95	8
ATOM	4335	0W3	WAT	X	44	20.140	16.123	39.073	1.00	62.86	8
ATOM	4336	0W4	WAT	X	44	17.491	51.997	31.031	1.00	80.00	8
ATOM	4337	0W5	WAT	X	44	46.380	42.021	59.675	1.00	51.50	8
ATOM	4338	0W6	WAT	X	44	13.481	34.188	29.544	1.00	66.53	8
ATOM	4339	0W7	WAT	X	44	33.452	41.508	56.803	1.00	50.62	8
ATOM	4340	0W8	WAT	X	44	47.624	43.632	31.945	1.00	43.18	8
ATOM	4341	0W9	WAT	X	44	26.231	12.181	43.880	1.00	49.95	8
ATOM	4342	0W0	WAT	X	45	14.968	36.024	33.676	1.00	33.17	8
ATOM	4343	0W1	WAT	X	45	62.906	20.054	42.528	1.00	50.37	8
ATOM	4344	0W2	WAT	X	45	45.852	21.374	58.053	1.00	55.98	8
ATOM	4345	0W3	WAT	X	45	50.504	43.538	16.798	1.00	34.36	8
ATOM	4346	0W4	WAT	X	45	36.077	40.800	13.082	1.00	45.23	8

ATOM	4367	OW5	WAT	X	45	15.297	36.178	30.314	1.00	41.94	8
ATOM	4368	OW6	WAT	X	45	11.948	34.622	19.560	1.00	83.16	8
ATOM	4369	OW8	WAT	X	45	49.746	24.887	60.391	1.00	66.28	8
ATOM	4370	OW9	WAT	X	45	36.657	55.115	28.131	1.00	37.69	8
ATOM	4371	OW0	WAT	X	46	55.074	25.248	36.950	1.00	41.36	8
ATOM	4372	OW1	WAT	X	46	47.652	23.423	22.484	1.00	42.59	8
ATOM	4373	OW2	WAT	X	46	44.015	15.772	24.447	1.00	47.57	8
ATOM	4374	OW3	WAT	X	46	7.635	2.279	10.856	1.00	61.51	8
ATOM	4375	OW4	WAT	X	46	55.490	45.238	53.756	1.00	80.18	8
ATOM	4376	OW5	WAT	X	46	24.651	30.369	3.824	1.00	53.51	8
ATOM	4377	OW6	WAT	X	46	36.564	25.795	58.795	1.00	43.24	8
ATOM	4378	OW7	WAT	X	46	37.878	24.510	56.675	1.00	60.23	8
ATOM	4379	OW8	WAT	X	46	9.767	27.253	17.228	1.00	44.01	8
ATOM	4380	OW9	WAT	X	46	33.066	7.229	37.529	1.00	48.47	8
ATOM	4381	OW0	WAT	X	47	8.243	21.706	21.929	1.00	61.56	8
ATOM	4382	OW1	WAT	X	47	46.978	13.274	45.175	1.00	40.90	8
ATOM	4383	OW2	WAT	X	47	41.004	12.753	21.561	1.00	73.88	8
ATOM	4384	OW4	WAT	X	47	3.035	8.918	-0.355	1.00	50.88	8
ATOM	4385	OW5	WAT	X	47	18.537	34.248	10.555	1.00	79.91	8
ATOM	4386	OW6	WAT	X	47	26.233	6.791	-2.079	1.00	48.58	8
ATOM	4387	OW7	WAT	X	47	37.312	53.735	22.566	1.00	63.31	8
ATOM	4388	OW8	WAT	X	47	17.940	29.638	6.277	1.00	57.32	8
ATOM	4389	OW9	WAT	X	47	26.830	27.316	2.717	1.00	62.15	8
ATOM	4390	OW0	WAT	X	48	65.931	28.577	46.176	1.00	69.51	8
ATOM	4391	OW1	WAT	X	48	19.661	45.120	40.540	1.00	40.74	8
ATOM	4392	OW2	WAT	X	48	10.667	22.744	23.628	1.00	36.22	8
ATOM	4393	OW3	WAT	X	48	8.702	24.434	20.838	1.00	51.66	8
ATOM	4394	OW4	WAT	X	48	35.773	26.533	56.343	1.00	38.96	8
ATOM	4395	OW5	WAT	X	48	38.218	2.333	13.072	1.00	37.60	8
ATOM	4396	OW6	WAT	X	48	25.061	48.128	50.748	1.00	69.43	8
ATOM	4397	OW7	WAT	X	48	24.333	37.538	52.402	1.00	33.69	8
ATOM	4398	OW8	WAT	X	48	52.741	13.029	46.552	1.00	46.94	8
ATOM	4399	OW9	WAT	X	48	30.393	18.085	52.715	1.00	73.77	8
ATOM	4380	OW0	WAT	X	49	21.293	35.987	52.496	1.00	56.71	8
ATOM	4381	OW1	WAT	X	49	26.704	53.743	20.826	1.00	82.73	8
ATOM	4382	OW2	WAT	X	49	65.451	38.921	50.670	1.00	50.91	8
ATOM	4383	OW3	WAT	X	49	9.019	18.103	21.967	1.00	57.54	8
ATOM	4384	OW4	WAT	X	49	43.689	31.759	26.580	1.00	33.20	8
ATOM	4385	OW5	WAT	X	49	65.973	31.154	38.950	1.00	51.21	8
ATOM	4386	OW6	WAT	X	49	50.668	41.968	57.102	1.00	35.55	8
ATOM	4387	OW7	WAT	X	49	67.466	32.818	48.733	1.00	65.20	8
ATOM	4388	OW8	WAT	X	49	12.540	31.451	14.136	1.00	67.07	8
ATOM	4389	OW9	WAT	X	49	24.089	6.493	18.874	1.00	41.89	8
ATOM	4390	OW0	WAT	X	50	46.352	12.360	48.271	1.00	78.91	8
ATOM	4391	OW1	WAT	X	50	26.960	36.851	6.038	1.00	44.57	8
ATOM	4392	OW2	WAT	X	50	37.082	59.754	36.774	1.00	66.16	8
ATOM	4393	OW3	WAT	X	50	57.220	36.380	35.486	1.00	60.08	8
ATOM	4394	OW4	WAT	X	50	47.460	48.140	35.950	1.00	51.89	8
ATOM	4395	OW5	WAT	X	50	32.642	7.671	29.024	1.00	62.58	8
ATOM	4396	OW6	WAT	X	50	40.898	5.278	12.690	1.00	58.65	8
ATOM	4397	OW7	WAT	X	50	43.951	11.795	23.808	1.00	51.02	8
ATOM	4398	OW8	WAT	X	50	56.331	38.665	59.400	1.00	77.23	8
ATOM	4399	OW9	WAT	X	50	42.112	15.859	19.271	1.00	42.44	8
ATOM	4400	OW0	WAT	X	51	43.751	9.508	10.207	1.00	72.09	8
ATOM	4401	OW1	WAT	X	51	21.156	18.175	-5.366	1.00	59.15	8
ATOM	4402	OW2	WAT	X	51	20.822	20.591	30.625	1.00	53.15	8
ATOM	4403	OW3	WAT	X	51	25.847	41.728	50.223	1.00	53.16	8
ATOM	4404	OW4	WAT	X	51	42.406	49.560	54.444	1.00	49.42	8
ATOM	4405	OW5	WAT	X	51	11.152	-0.096	4.529	1.00	73.12	8
ATOM	4406	OW6	WAT	X	51	41.064	10.519	39.198	1.00	76.33	8
ATOM	4407	OW7	WAT	X	51	11.838	45.652	24.174	1.00	52.20	8
ATOM	4408	OW8	WAT	X	51	24.803	8.502	38.134	1.00	48.46	8
ATOM	4409	OW9	WAT	X	51	28.241	55.029	32.933	1.00	56.81	8
ATOM	4410	OW0	WAT	X	52	24.326	46.042	48.362	1.00	42.89	8
ATOM	4411	OW1	WAT	X	52	60.372	23.243	57.581	1.00	51.46	8
ATOM	4412	OW2	WAT	X	52	44.063	13.149	3.195	1.00	73.23	8
ATOM	4413	OW3	WAT	X	52	29.959	38.273	7.993	1.00	74.96	8
ATOM	4414	OW4	WAT	X	52	17.959	47.341	32.823	1.00	52.58	8
ATOM	4415	OW5	WAT	X	52	35.761	36.887	7.808	1.00	46.76	8
ATOM	4416	OW6	WAT	X	52	29.185	14.140	50.554	1.00	100.00	8
ATOM	4417	OW7	WAT	X	52	46.852	47.409	54.235	1.00	47.47	8
ATOM	4418	OW8	WAT	X	52	46.124	18.871	10.000	1.00	74.45	8
ATOM	4419	OW9	WAT	X	52	43.467	42.127	14.225	1.00	58.70	8
ATOM	4420	OW1	WAT	X	53	42.354	10.824	26.570	1.00	74.16	8
ATOM	4421	OW2	WAT	X	53	41.382	9.160	28.416	1.00	65.06	8
ATOM	4422	OW3	WAT	X	53	32.249	16.276	51.085	1.00	66.53	8
ATOM	4423	OW4	WAT	X	53	43.754	20.935	55.297	1.00	89.21	8
ATOM	4424	OW5	WAT	X	53	46.525	22.435	61.833	1.00	64.40	8
ATOM	4425	OW6	WAT	X	53	36.689	9.501	46.403	1.00	43.78	8
ATOM	4426	OW7	WAT	X	53	13.785	14.234	21.394	1.00	46.49	8
ATOM	4427	OW8	WAT	X	53	44.108	8.308	6.121	1.00	74.38	8
ATOM	4428	OW9	WAT	X	53	37.095	13.297	47.553	1.00	92.89	8
ATOM	4429	OW0	WAT	X	54	60.222	38.361	56.675	1.00	71.18	8
ATOM	4430	OW1	WAT	X	54	43.676	52.104	52.067	1.00	52.01	8
ATOM	4431	OW2	WAT	X	54	13.472	23.519	26.526	1.00	85.06	8
ATOM	4432	OW3	WAT	X	54	26.573	48.774	55.241	1.00	63.24	8
ATOM	4433	OW4	WAT	X	54	38.373	54.655	25.877	1.00	61.51	8
ATOM	4434	OW5	WAT	X	54	40.109	29.004	7.323	1.00	50.80	8
ATOM	4435	OW6	WAT	X	54	40.897	28.228	33.474	1.00	55.10	8
ATOM	4436	OW8	WAT	X	54	26.359	57.407	32.671	1.00	74.31	8
ATOM	4437	OW9	WAT	X	54	15.383	36.694	13.336	1.00	63.49	8
ATOM	4438	OW0	WAT	X	55	25.637	23.526	51.791	1.00	62.36	8
ATOM	4439	OW1	WAT	X	55	47.868	37.197	21.724	1.00	98.01	8
ATOM	4440	OW2	WAT	X	55	48.664	28.592	20.875	1.00	61.42	8
ATOM	4441	OW3	WAT	X	55	22.182	11.543	42.550	1.00	50.93	8
ATOM	4442	OW4	WAT	X	55	14.290	33.767	23.519	1.00	43.45	8
ATOM	4443	OW5	WAT	X	55	49.254	21.261	57.388	1.00	74.77	8
ATOM	4444	OW6	WAT	X	55	32.072	50.437	56.442	1.00	84.60	8
ATOM	4445	OW7	WAT	X	55	6.861	26.478	7.012	1.00	69.24	8
ATOM	4446	OW8	WAT	X	55	36.069	6.771	2.277	1.00	89.64	8
ATOM	4447	OW9	WAT	X	55	60.239	29.387	37.677	1.00	64.46	8
ATOM	4448	OW1	WAT	X	56	46.693	15.300	46.504	1.00	37.40	8
ATOM	4449	OW2	WAT	X	56	47.685	47.802	26.981	1.00	44.40	8
ATOM	4450	OW3	WAT	X	56	21.472	47.007	15.910	1.00	70.01	8
ATOM	4451	OW4	WAT	X	56	2.967	21.682	5.603	1.00	60.74	8
ATOM	4452	OW5	WAT	X	56	62.723	25.567	58.195	1.00	45.51	8

ATOM	4559	0x3	WAT	X	70	12.149	0.500	-0.175	1.00100.00	8	ATOM	4612	0x2	WAT	X	81	13.341	34.872	38.349	1.00	64.64	8	
ATOM	4560	0x4	WAT	X	70	24.781	48.147	16.489	1.00	53.74	8	ATOM	4613	0x3	WAT	X	81	51.626	42.754	59.455	1.00	87.45	8
ATOM	4561	0x5	WAT	X	70	45.295	18.629	15.166	1.00	66.52	8	ATOM	4614	0x4	WAT	X	81	17.748	40.786	43.576	1.00	81.62	8
ATOM	4562	0x6	WAT	X	70	16.273	24.172	43.929	1.00	86.28	8	ATOM	4615	0x5	WAT	X	81	40.981	31.297	32.687	1.00	92.90	8
ATOM	4563	0x7	WAT	X	71	14.692	0.299	4.588	1.00	76.24	8	ATOM	4616	0x6	WAT	X	81	36.339	42.304	57.906	1.00	54.44	8
ATOM	4564	0x3	WAT	X	71	56.655	45.988	46.443	1.00	74.53	8	ATOM	4617	0x4	WAT	X	82	52.150	44.557	55.907	1.00	81.29	8
ATOM	4565	0x4	WAT	X	71	44.653	15.572	21.500	1.00	81.92	8	ATOM	4618	0x5	WAT	X	82	44.696	27.699	29.800	1.00	66.84	8
ATOM	4566	0x5	WAT	X	71	13.915	34.012	32.549	1.00	76.95	8	ATOM	4619	0x6	WAT	X	82	15.369	42.073	36.641	1.00	87.69	8
ATOM	4567	0x6	WAT	X	72	18.894	23.324	28.037	1.00	69.01	8	ATOM	4620	0x4	WAT	X	82	44.262	38.613	61.725	1.00	74.79	8
ATOM	4568	0x7	WAT	X	72	25.942	27.526	52.380	1.00	80.30	8	ATOM	4621	0x5	WAT	X	82	10.887	37.555	22.160	1.00	77.71	8
ATOM	4569	0x3	WAT	X	72	20.444	43.760	44.743	1.00	57.92	8	ATOM	4622	0x6	WAT	X	82	57.317	26.895	38.482	1.00	54.04	8
ATOM	4570	0x4	WAT	X	72	56.463	15.927	56.362	1.00	90.66	8	ATOM	4623	0x1	WAT	X	83	1.485	10.546	14.639	1.00	49.60	8
ATOM	4571	0x5	WAT	X	72	67.258	38.530	40.380	1.00	67.91	8	ATOM	4624	0x2	WAT	X	83	44.383	11.585	44.954	1.00	69.75	8
ATOM	4572	0x6	WAT	X	73	13.119	23.916	-2.569	1.00	57.58	8	ATOM	4625	0x4	WAT	X	83	13.091	19.080	23.540	1.00	84.10	8
ATOM	4573	0x7	WAT	X	73	27.753	4.319	2.523	1.00	68.14	8	ATOM	4626	0x5	WAT	X	83	49.664	18.609	50.424	1.00	79.36	8
ATOM	4574	0x4	WAT	X	73	15.049	27.612	26.046	1.00	71.85	8	ATOM	4627	0x6	WAT	X	83	-0.411	-0.186	6.219	1.00	73.91	8
ATOM	4575	0x7	WAT	X	73	41.506	30.331	28.071	1.00	39.96	8	ATOM	4628	0x3	WAT	X	84	45.916	18.172	53.625	1.00	82.88	8
ATOM	4576	0x9	WAT	X	73	49.356	13.175	50.180	1.00	77.21	8	ATOM	4629	0x4	WAT	X	84	42.886	23.516	61.123	1.00	71.70	8
ATOM	4577	0x0	WAT	X	74	44.776	9.064	36.247	1.00	56.22	8	ATOM	4630	0x4	WAT	X	84	26.711	5.741	19.232	1.00	65.61	8
ATOM	4578	0x2	WAT	X	74	14.995	33.147	12.393	1.00	74.77	8	ATOM	4631	0x5	WAT	X	84	18.341	21.188	47.071	1.00	79.82	8
ATOM	4579	0x3	WAT	X	74	21.394	18.527	43.796	1.00	77.10	8	ATOM	4632	0x6	WAT	X	84	30.324	37.244	55.283	1.00	63.21	8
ATOM	4580	0x4	WAT	X	74	-0.275	3.244	2.071	1.00	89.93	8	ATOM	4633	0x8	WAT	X	84	45.383	21.545	29.439	1.00	65.08	8
ATOM	4581	0x5	WAT	X	74	32.705	3.566	1.290	1.00	100.00	8	ATOM	4634	0x9	WAT	X	84	47.617	21.423	28.329	1.00	72.90	8
ATOM	4582	0x6	WAT	X	74	23.871	44.907	16.023	1.00	71.10	8	ATOM	4635	0x1	WAT	X	85	14.724	8.133	-4.054	1.00	80.41	8
ATOM	4583	0x8	WAT	X	74	41.289	9.005	3.932	1.00	71.97	8	ATOM	4636	0x2	WAT	X	85	14.404	38.900	34.440	1.00	73.60	8
ATOM	4584	0x2	WAT	X	75	38.329	57.673	44.241	1.00	64.90	8	ATOM	4637	0x4	WAT	X	85	30.311	39.411	56.032	1.00	72.07	8
ATOM	4585	0x5	WAT	X	75	18.910	30.958	52.593	1.00	93.30	8	ATOM	4638	0x5	WAT	X	85	38.750	51.931	56.443	1.00	83.88	8
ATOM	4586	0x6	WAT	X	75	68.020	36.610	50.288	1.00	86.49	8	ATOM	4639	0x4	WAT	X	86	28.737	50.755	56.620	1.00	78.91	8
ATOM	4587	0x2	WAT	X	76	22.139	39.199	7.275	1.00	71.53	8	ATOM	4640	0x2	WAT	X	86	38.447	9.203	1.111	1.00	60.02	8
ATOM	4588	0x3	WAT	X	76	58.720	42.672	38.660	1.00	68.73	8	ATOM	4641	0x3	WAT	X	86	63.955	18.750	55.290	1.00	75.30	8
ATOM	4589	0x5	WAT	X	76	61.482	44.540	47.192	1.00	77.48	8	ATOM	4642	0x4	WAT	X	86	28.437	41.435	56.329	1.00	77.99	8
ATOM	4590	0x9	WAT	X	76	22.107	41.072	47.776	1.00	60.73	8	ATOM	4643	0x5	WAT	X	86	27.951	49.707	19.814	1.00	80.66	8
ATOM	4591	0x2	WAT	X	77	2.634	-1.318	3.949	1.00	69.96	8	ATOM	4644	0x6	WAT	X	86	33.978	8.299	40.249	1.00	69.22	8
ATOM	4592	0x3	WAT	X	77	32.187	5.643	25.223	1.00	76.13	8	ATOM	4645	0x7	WAT	X	86	17.498	1.498	10.616	1.00	71.37	8
ATOM	4593	0x4	WAT	X	77	67.602	33.066	51.363	1.00	74.39	8	ATOM	4646	0x4	WAT	X	87	1.278	15.798	6.438	1.00	70.87	8
ATOM	4594	0x5	WAT	X	77	52.748	50.627	48.547	1.00	64.94	8	ATOM	4647	0x1	WAT	X	87	37.174	55.549	52.513	1.00	69.91	8
ATOM	4595	0x6	WAT	X	77	10.204	44.509	25.769	1.00	74.39	8	ATOM	4648	0x3	WAT	X	87	68.146	21.047	55.397	1.00	70.79	8
ATOM	4596	0x7	WAT	X	77	22.754	10.234	24.846	1.00	66.60	8	ATOM	4649	0x4	WAT	X	87	24.655	52.548	24.459	1.00	72.31	8
ATOM	4597	0x2	WAT	X	78	65.372	34.387	54.026	1.00	68.26	8	ATOM	4650	0x5	WAT	X	87	46.009	24.086	33.287	1.00	79.02	8
ATOM	4598	0x3	WAT	X	78	61.952	23.010	40.260	1.00	64.44	8	ATOM	4651	0x6	WAT	X	87	50.195	14.529	36.835	1.00	65.15	8
ATOM	4599	0x4	WAT	X	78	6.141	-0.725	6.920	1.00	63.43	8	ATOM	4652	0x9	WAT	X	87	29.201	3.240	-2.272	1.00	78.74	8
ATOM	4600	0x6	WAT	X	78	62.946	40.127	37.159	1.00	74.61	8	ATOM	4653	0x2	WAT	X	88	13.357	32.036	24.857	1.00	62.05	8
ATOM	4601	0x2	WAT	X	79	57.524	45.787	43.333	1.00	68.47	8	ATOM	4654	0x3	WAT	X	88	65.406	20.886	50.995	1.00	76.49	8
ATOM	4602	0x3	WAT	X	79	27.601	6.844	22.540	1.00	100.00	8	ATOM	4655	0x4	WAT	X	88	20.515	8.228	19.759	1.00	73.98	8
ATOM	4603	0x4	WAT	X	79	13.772	31.115	20.743	1.00	57.33	8	ATOM	4656	0x5	WAT	X	88	46.758	18.587	30.455	1.00	74.75	8
ATOM	4604	0x5	WAT	X	79	58.663	23.880	36.310	1.00	71.62	8	ATOM	4657	0x6	WAT	X	88	49.679	43.124	20.824	1.00	80.84	8
ATOM	4605	0x6	WAT	X	79	49.511	45.784	34.237	1.00	86.89	8	ATOM	4658	0x2	WAT	X	89	60.303	44.435	40.737	1.00	70.62	8
ATOM	4606	0x2	WAT	X	80	42.349	10.479	16.376	1.00	64.41	8	ATOM	4659	0x3	WAT	X	89	13.240	-1.159	9.184	1.00	78.53	8
ATOM	4607	0x3	WAT	X	80	64.430	36.390	57.479	1.00	81.60	8	ATOM	4660	0x4	WAT	X	89	61.700	19.538	53.061	1.00	64.93	8
ATOM	4608	0x4	WAT	X	80	51.348	32.222	6.850	1.00	86.83	8	ATOM	4661	0x5	WAT	X	89	24.291	28.301	0.472	1.00	69.68	8
ATOM	4609	0x8	WAT	X	80	28.165	8.846	38.088	1.00	71.08	8	ATOM	4662	0x6	WAT	X	89	27.964	24.098	-2.600	1.00	64.61	8
ATOM	4610	0x6	WAT	X	80	65.757	27.493	53.760	1.00	48.10	8	ATOM	4663	0x0	WAT	X	90	22.140	24.413	52.912	1.00	67.47	8
ATOM	4611	0x1	WAT	X	81	45.249	12.674	37.874	1.00	50.64	8	ATOM	4664	0x1	WAT	X	90						

ATOH	4665	043	WAT	X	90	39.112	6.740	5.054	1.00	66.72	8
ATOH	4666	044	WAT	X	90	43.364	57.890	49.964	1.00	71.30	8
ATOH	4667	046	WAT	X	90	16.187	17.842	27.844	1.00	71.63	8
ATOH	4668	047	WAT	X	90	22.913	3.223	6.101	1.00	63.34	8
ATOH	4669	040	WAT	X	91	0.373	23.417	18.644	1.00	68.95	8
ATOH	4670	041	WAT	X	91	19.144	22.297	52.147	1.00	68.45	8
ATOH	4671	042	WAT	X	91	46.750	22.374	17.228	1.00	68.56	8
ATOH	4672	043	WAT	X	91	50.310	39.246	9.155	1.00	68.48	8
ATOH	4673	045	WAT	X	91	14.832	31.811	-1.674	1.00	65.32	8
ATOH	4674	046	WAT	X	91	39.568	22.971	59.682	1.00	94.75	8
ATOH	4675	040	WAT	X	92	28.305	37.474	53.688	1.00	64.82	8
ATOH	4676	041	WAT	X	92	60.842	35.037	35.557	1.00	68.20	8
ATOH	4677	043	WAT	X	92	38.306	2.043	9.940	1.00	74.71	8
ATOH	4678	044	WAT	X	92	37.932	10.010	23.873	1.00	62.54	8
ATOH	4679	045	WAT	X	92	37.872	59.284	31.560	1.00	64.40	8
ATOH	4680	048	WAT	X	92	16.587	37.900	45.458	1.00	57.48	8
ATOH	4681	042	WAT	X	93	24.426	6.991	31.450	1.00	62.04	8
ATOH	4682	043	WAT	X	93	15.322	46.823	24.885	1.00	68.48	8
ATOH	4683	045	WAT	X	93	18.754	23.194	42.946	1.00	69.72	8
ATOH	4684	046	WAT	X	93	20.937	46.805	43.439	1.00	65.25	8
ATOH	4685	048	WAT	X	93	28.767	42.761	53.085	1.00	51.35	8
ATOH	4686	040	WAT	X	94	32.517	16.473	33.381	1.00	60.16	8
ATOH	4687	042	WAT	X	94	26.635	4.800	29.351	1.00	63.33	8
ATOH	4688	043	WAT	X	94	1.194	4.216	9.172	1.00	60.36	8
ATOH	4689	044	WAT	X	94	25.652	19.885	-5.299	1.00	58.09	8
ATOH	4690	045	WAT	X	94	43.661	12.692	20.184	1.00	65.23	8
ATOH	4691	046	WAT	X	94	17.439	46.586	41.518	1.00	66.21	8
ATOH	4692	047	WAT	X	94	35.133	15.487	30.639	1.00	49.75	8
ATOH	4693	048	WAT	X	94	36.346	8.698	18.844	1.00	48.58	8
ATOH	4694	040	WAT	X	95	30.818	8.165	40.656	1.00	56.86	8
ATOH	4695	041	WAT	X	95	40.089	21.776	55.765	1.00	53.69	8
ATOH	4696	042	WAT	X	95	18.639	14.065	-5.612	1.00	55.94	8
ATOH	4697	043	WAT	X	95	51.587	38.457	41.331	1.00	56.04	8
ATOH	4698	044	WAT	X	95	50.107	29.401	17.255	1.00	56.00	8
ATOH	4699	045	WAT	X	95	8.218	14.744	20.596	1.00	56.95	8
ATOH	4700	046	WAT	X	95	40.674	47.760	57.927	1.00	54.91	8